

Treadwell & Rollo

18 November 2005
Project 2577.05

Mr. James Tischler
California Regional Water Quality Control Board
North Coast Region
5550 Skylane Boulevard, Suite A
Santa Rosa, California 95403

Subject: **Re-Installation of Temporary Groundwater Monitoring Wells**
Village Gardens (Former Point St. George Fisheries Facility)
Santa Rosa, California

Dear Mr. Tischler:

This letter summarizes the reinstallation of temporary groundwater monitoring wells at the Village Gardens development (former Point St. George Fisheries facility, Site) in Santa Rosa, California (Figure 1). This work was conducted by Treadwell & Rollo on behalf of Bugatto Santa Rosa Properties, Inc. and consisted of re-installing, developing, collecting and analyzing groundwater samples from the seven temporary wells (TW-1R through TW-7R). The original seven temporary wells (TW-1 through TW-7), and six pre-existing monitoring wells (MW-1 through MW-3, and P-1 through P-3) were abandoned in July 2005 prior to rough grading as part of the property redevelopment.

The re-installation activities were performed in general accordance with the *Work Plan for Groundwater Characterization* (Work Plan) prepared by Treadwell & Rollo, dated 15 April 2005. The Work Plan is part of the implementation of the *Revised Soil and Groundwater Management Plan* dated March 2004. The North Coast California Regional Water Quality Control Board (RWQCB) concurred with the removal and replacement of the seven temporary wells in a letter dated 13 June 2005.

GROUNDWATER MONITORING WELL INSTALLATION ACTIVITIES

As outlined in the Work Plan, the seven temporary wells were re-installed to continue monitoring the extent of petroleum and chlorinated hydrocarbons at the Site (Figure 2). The re-installation locations were identified by a surveyor using the survey coordinates from the original temporary wells. Because of construction conflicts, the re-installed locations for wells TW-3R and TW-4R were moved between 25 and 35 feet to the north of the original locations. Details of the construction, development, and sampling of the re-installed wells are presented in the following sections.

Mr. James Tischler
California Regional Water Quality Control Board
18 November 2005
Page 2

2.1 Temporary Monitoring Well Installation, Development, and Surveying

Drilling and well installation were performed on 19 and 20 September 2005 by Gregg Drilling and Testing, Inc. (Gregg Drilling) of Martinez, California. Soil borings were advanced below the water table to total depths of approximately 25 feet below ground surface (bgs) using a drill rig equipped with 8-inch-diameter hollow-stem augers. Soil samples were collected at 5-foot intervals in each boring and were logged according to the Unified Soil Classification System by a Treadwell & Rollo California-registered geologist. The boring and well completion logs are included in Appendix A.

Drilling and sampling equipment were cleaned between borings. The soil cuttings were placed in 55-gallon drums prior to waste characterization and off-site disposal.

A groundwater monitoring well was installed in each of the seven soil borings. The wells were constructed of 2-inch-diameter Schedule 40 polyvinyl chloride (PVC) casing with flush threads and 0.020-inch-slot well screen. A 15-foot length of well screen was installed for each well. Blank well casing was installed from the top of the screened casing to the ground surface. A sand filter pack (No. 2/12 sand) was installed in the borehole annulus from the bottom to approximately 1 foot above the top of the screened casing. A 2-foot-thick seal of hydrated bentonite pellets was placed above the sand filter pack. The remainder of the borehole annulus was sealed with a neat cement grout. A locking water-tight well cap was placed on the well casing. The wells were completed with protective wellhead boxes. Wells TW-1R through TW-3R and TW-5R were completed with flush-mounted street boxes, while wells TW-4R, TW-6R and TW-7R were finished approximately 2.5 feet above ground surface with monument "stovepipe" boxes. Well construction details are shown in Table 1 and on the boring logs (Appendix A).

On 3 and 4 October 2005, Gregg Drilling developed the wells using surge and purge bailing methods in accordance with the Work Plan. Groundwater field parameters (temperature, pH, conductivity, and turbidity) were measured and recorded throughout development. Development continued until the water removed from each well showed stabilization of field parameters and was relatively free of suspended sediments. The purged water was stored in 55-gallon drums pending testing and disposal at an appropriate waste facility. The well development logs are included as Appendix B.

On 9 November 2005, Kiester, Salvio & Rei, a California-licensed land surveyor, surveyed the top of casing elevations of the newly-installed wells. The horizontal values were based on North American Datum of 1983 (NAD83), Zone II, and the elevations were referenced to City of Santa Rosa bench marks, North American Geodetic Vertical Datum of 1929 (NGVD 29 datum). Top of casing elevations are shown in Table 1.

Mr. James Tischler
California Regional Water Quality Control Board
18 November 2005
Page 3

GROUNDWATER SAMPLING ACTIVITIES

On 7 October 2005, groundwater elevations were measured, and groundwater samples were collected at wells TW-1R through TW-7R (Figure 2). Groundwater monitoring and sampling field forms are presented in Appendix C.

Groundwater-Level Measurements

Groundwater levels were measured on 7 October 2005 using an oil/water interface probe. The depth to groundwater across the Site ranged between approximately 10.44 feet to 12.20 feet below the top of the well casing. Based on these measurements, the groundwater elevations ranged between 137.36 and 138.17 feet above mean sea level. No free-phase hydrocarbons were detected in any of the wells. Groundwater measurement levels and elevations are presented in Table 1 and Figure 2. The field Well Gauging Data form is included in Appendix C.

Monitoring Well Purging and Sampling

On 7 October 2005, all seven temporary wells were purged and sampled in general accordance with the Work Plan. Prior to collecting groundwater samples, approximately three well casing volumes of water were purged using a submersible pump, and field parameters were measured including pH, temperature, conductance, dissolved oxygen (DO), oxidation/reduction potential (ORP), ferrous iron, and turbidity. Groundwater samples were then collected from each well using a disposable bailer. Each sample was placed in an appropriately preserved, laboratory-supplied sample container, labeled, and placed on ice in an insulated container for delivery to Curtis & Tompkins, Ltd., a California-certified laboratory located in Berkeley, California. The samples were accompanied by a chain-of-custody record during transport. Purging equipment, purging volumes, purge water parameters, and sampling equipment for each well are presented in the purge records in Appendix C. Purge water was stored in 55-gallon drums for waste characterization.

Groundwater Analytical Program

As presented in the Work Plan, the groundwater samples were submitted for the following analyses:

- Total petroleum hydrocarbons in the gasoline range (TPHg), in the diesel range (TPHD), and in the motor oil range (TPHmo), using EPA Method 8015 modified and silica gel cleanup (SGCU) preparation using EPA Method SW3630C.
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) and methyl tertiary-butyl ether (MTBE) using EPA Method 8260b and silica gel cleanup (SGCU) preparation using EPA Method SW3630C.

Treadwell & Rollo

Mr. James Tischler
California Regional Water Quality Control Board
18 November 2005
Page 4

- Chlorinated hydrocarbons using EPA Method 8260b.

Groundwater samples from wells TW-2R, TW-3R, TW-5R, and TW-7R were also analyzed for general chemistry parameters:

- Alkalinity by EPA Method 310.2;
- Chloride and sulfate by EPA Method 300;
- Manganese by EPA Method 6010; and
- Chemical Oxygen Demand (COD) by EPA Method 410.4.

Quality assurance/quality control (QA/QC) samples were also collected and included field duplicate, trip blank and equipment rinsate samples (Tables 2 and 3). Duplicate samples were collected from wells TW-4R (DUP-1-2005-10-07) and TW-6R (DUP-2-2005-10-07) to estimate the precision of the analyses. Precision is assessed by calculating the Relative Percent Differences (RPD) for each pair of duplicate analyses, as shown below along with the RPD results:

$$RPD = \frac{\text{primary results} - \text{duplicate results}}{(\text{primary results} + \text{duplicate results})/2} \times 100\%$$

Relative Percent Difference (RPD) Results

Location/Duplicate	Compound	Primary Results (µg/L)	Duplicate Results (µg/L)	RPD
TW-4R DUP-1-2005-10-07	TPHd	1,200	1,900	45%
	TPHd (SGCU)	570	870	42%
	TPHmo	1,300	3,300	87%
	TPHmo (SGCU)	590	810	31%
	PCE	<0.5	<0.5	--
	TCE	<0.5	<0.5	--
	cis-1,2-DCE	<0.5	<0.5	--
	1,1-DCE	<0.5	<0.5	--
	1,1-DCA	<0.5	<0.5	--
	1,1,1-TCA	<0.5	<0.5	--

Treadwell & Rollo

Mr. James Tischler
California Regional Water Quality Control Board
18 November 2005
Page 5

Relative Percent Difference (RPD) Results (Continued)

Location/Duplicate	Compound	Primary Results ($\mu\text{g/L}$)	Duplicate Results ($\mu\text{g/L}$)	RPD
TW-6R DUP-2-2005-10-07	TPHd	<50	<50	--
	TPHd (SGCU)	<50	<50	--
	TPHmo	<300	<300	--
	TPHmo (SGCU)	<300	<300	--
	PCE	22	23	4%
	TCE	11	12	9%
	cis-1,2-DCE	4.7	5.0	6%
	1,1-DCE	2.1	2.0	5%
	1,1-DCA	<0.5	<0.5	--
	1,1,1-TCA	0.5	0.6	18%

$\mu\text{g/L}$ = micrograms per liter

The RPDs of the primary and duplicate chlorinated hydrocarbon data, except 1,1,1-TCA are below 10% indicating acceptable precision. The 1,1,1-TCA value of 18% is likely due to the sensitivity of the calculation to small variations of low concentrations. However, TPH analyses for the samples from TW-4R have RPD values from 31% to 87%. This variability may be due to elevated conductivity and possibly elevated turbidity in the sample. These causes are suggested by the relatively lower RPD of the TPHmo after silica gel cleanup. TPHg, BTEX, and MTBE were not detected in the primary or duplicate samples.

A laboratory-prepared trip blank sample (TB-1-2005-10-07) was shipped with the cooler containing chlorinated hydrocarbons sample containers and submitted for 8260b analyses. An equipment rinsate sample was collected and submitted following the decontamination of the purge equipment. The equipment rinsate sample (FB-1-2005-10-07) was analyzed for TPHg, TPHd, BTEX, MTBE, and chlorinated hydrocarbons. No analyzed compounds were detected in either the trip blank or equipment rinsate sample.

Internal laboratory QC consisted of method blanks and sample surrogate spikes to provide data on the precision and accuracy of laboratory results and potential matrix interference effects. Based on the review of the QA/QC data, data qualification was not necessary. However, the laboratory noted that heavier TPHd compounds contributed to some of the quantified concentrations and some samples had chromatographic patterns that did not resemble standard chromatograms for TPHd. The laboratory also noted that lighter TPHmo compounds contributed to some of the quantified concentrations and some samples had chromatographic patterns unlike the standard chromatograms for TPHmo (Appendix D).

Mr. James Tischler
California Regional Water Quality Control Board
18 November 2005
Page 6

ANALYTICAL RESULTS

The analytical results for petroleum and chlorinated hydrocarbons and general chemistry parameters are presented in Tables 2 through 4, respectively. Copies of the laboratory data reports are included in Appendix D. The relative concentrations in groundwater are summarized below.

Petroleum Hydrocarbon Results

TPHg, BTEX, and MTBE compounds were not detected in any of the samples. TPHd, without silica gel cleanup, was detected in only two wells: at 62 µg/L at well TW-7R and 1,200 µg/L at well TW-4R. After silica gel cleanup, the TPHd concentration was below the detection limit (<50 µg/L) in the sample from well TW-7R and 570 µg/L in the sample from well TW-4R. Analytical results for these hydrocarbons, along with the respective RWQCB Water Quality Objectives (WQOs) levels, are presented in Table 2. The detected concentrations of TPH may be related to the elevated turbidity of the samples. The concentrations may reflect TPH sorbed onto fine sediment particles rather than TPH dissolved in groundwater.

Chlorinated Hydrocarbons Results

Chlorinated hydrocarbons were detected in all groundwater samples except from well TW-4R. The compounds included tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), 1,1-dichloroethene (1,1-DCE), 1,1-dichloroethane (1,1-DCA), and 1,1,1-trichloroethane (1,1,1-TCA). The concentrations and distribution of the detected chlorinated hydrocarbons are similar to that found in previous Site investigations. Analytical results and RWQCB WQOs are presented in Table 3 and are summarized below.

Chlorinated Hydrocarbons in Groundwater Summary

Compound	Number of Detections	Number of WQO Exceedances	Range of Detections (µg/L)
PCE	6	6	10 to 34
TCE	6	5	4.1 to 23
cis-1,2-DCE	6	2	2.0 to 6.8
1,1-DCE	3	0	0.6 to 2.1
1,1-DCA	0	0	NA
1,1,1-TCA	2	0	0.5 to 0.7

µg/L = micrograms per liter

NA= not applicable

Treadwell & Rollo

Mr. James Tischler
California Regional Water Quality Control Board
18 November 2005
Page 7

Dissolved Oxygen and General Chemistry Results

pH, ORP, Eh, and DO in groundwater were measured at all of the wells (Table 4). General chemistry analyses were performed at the laboratory on samples from the following four wells (Table 4):

- Upgradient perimeter well TW-2R,
- Well TW-3R located upgradient of the UST3 excavation
- Well TW-5R located downgradient of former UST1, and
- Well TW-7R located downgradient of former UST3.

In general, the DO and general chemistry results were similar to those detected in the May 2005 groundwater sampling event. DO and general chemistry results are presented in Table 4.

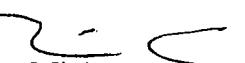
CONCLUSIONS

No concentrations of TPHg, BTEX, or MTBE were detected in the seven groundwater samples. TPHd was detected at TW-4R and after silica gel cleanup, at 570 µg/L. Also, after silica gel cleanup, TPHmo was detected only at TW-4R at 590 µg/L.

The concentrations of chlorinated hydrocarbons compounds were similar to those in previous investigations. The highest concentrations of PCE and TCE were found at the upgradient perimeter wells TW-1R and TW-2R. PCE and TCE were not detected at TW-4R which is near the remediation excavations at former UST3 (Figure 2). As was found in previous events, vinyl chloride was not detected.

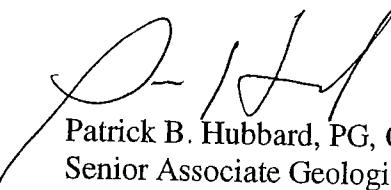
Please call me or Patrick Hubbard at 415-955-9040 if you have any questions.

Sincerely yours,
TREADWELL & ROLLO, INC.


Michael A. Chamberlain, PG
Senior Project Engineer

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Patrick B. Hubbard, PG, CEG
Senior Associate Geologist

Treadwell & Rollo

Mr. James Tischler
California Regional Water Quality Control Board
18 November 2005
Page 8

cc: Eugene Bugatto – Bugatto Santa Rosa Properties, Inc.
James Arnold – The Arnold Law Practice
Kent Byers – Christopherson Homes, Inc.
Linda Mackey-Taverner – SCS Engineers

Attachments:

Table 1 Monitoring Well Construction Details
Table 2 Summary of Petroleum Hydrocarbons in Groundwater
Table 3 Summary of Chlorinated Hydrocarbons in Groundwater
Table 4 Summary of Groundwater General Chemistry Parameters

Figure 1 Site Location Map
Figure 2 Site Plan

Appendix A Soil Boring Log and Well Construction Details
Appendix B Well Development Logs
Appendix C Groundwater Monitoring and Sampling Field Forms
Appendix D Certified Laboratory Reports and Chain-of-Custody Records

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TABLES

Table 1
Monitoring Well Construction Details
Village Gardens
(b^ormer Point St. George Fisheries Facility)
Santa Rosa, California

Well ID	Installation Date	Total Depth of Boring (feet)	Borehole Diameter (inches)	Casing Diameter (inches)	Bottom of Casing (depth in feet)	Top of Screen (depth in feet)	Bottom of Screen (depth in feet)	Top of Casing Elevation ¹ (feet)	Depth to Water ² (feet)	Groundwater Elevation ¹ (feet)
TW-1R	09/20/05	25	8	2	25.0	10.0	25.0	149.46	11.40	138.06
TW-2R	09/20/05	25	8	2	24.0	9.0	24.0	149.42	11.25	138.17
TW-3R	09/19/05	25	8	2	25.0	10.0	25.0	149.23	11.23	138.00
TW-4R	09/19/05	25	8	2	25.0	10.0	25.0	149.46	12.02	137.44
TW-5R	09/20/05	25	8	2	25.0	10.0	25.0	148.41	10.44	137.97
TW-6R	09/19/05	25	8	2	25.0	10.0	25.0	149.58	11.87	137.71
TW-7R	09/19/05	25	8	2	25.0	10.0	25.0	149.56	12.20	137.36

Notes

¹ foot above City of Santa Rosa bench mark, North America Vertical Datum of 1929 (NGVD 29)

²Depth measured from top of well casing on 7 October 2005.

Table 2
Summary of Petroleum Hydrocarbons in Groundwater
Village Gardens
(b²former Point St. George Fisheries)
Santa Rosa, California

Well ID	Sample ID	Date	TPH _g	TPH _d	TPH _d (SGCU)	TPH _{mo} (SGCU)	TPH _{mo} (SGCU)	Benzene	Toluene	Ethyl- benzene	m,p- Xylenes	o- Xylene	MTBE
RWQCB North Coast Water Quality Objectives¹													
TW-1R	TW-1R-2005-10-07	10/7/2005	<50	<50	<50	<300	<300	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TW-2R	TW-2R-2005-10-07	10/7/2005	<50	<50	<50	<300	<300	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TW-3R	TW-3R-2005-10-07	10/7/2005	<50	<50	<50	<300	<300	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TW-4R	TW-4R-2005-10-07	10/7/2005	<50	1,200 HY	570 HY	1,300 LY	590 L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
DUP-1	DUP-1-2005-10-07	10/7/2005	<50	1,900 HY	870 HY	3,300	810 L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TW-5R	TW-5R-2005-10-07	10/7/2005	<50	<50	<50	<300	<300	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TW-6R	TW-6R-2005-10-07	10/7/2005	<50	<50	<50	<300	<300	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
DUP-2	DUP-2-2005-10-07	10/7/2005	<50	<50	<50	<300	<300	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TW-7R	TW-7R-2005-10-07	10/7/2005	<50	62 HY	<50	<300	<300	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
EB	FB-2005-10-07	10/7/2005	<50	<50	<50	<300	<300	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TB	TB1-2005-10-07	10/7/2005	NA	NA	NA	NA	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Notes:

¹Regional Water Quality Control Board (RWQCB) North Coast Region Basin Plan, 2000, Table 3-2 for domestic or municipal supply; Table 2-1 and page 2-1.00 indicates municipal and domestic supply for the Laguna de Santa Rosa hydrologic unit.

²The North Coast Water Quality Objective listed is associated with total xylenes (i.e. the sum of m,p- and o-xylenes).
-- RWQCB North Coast Water Quality Objective not established

TPHg Total Petroleum Hydrocarbons as gasoline
TPHD Total Petroleum Hydrocarbons as diesel

TPHmo Total Petroleum Hydrocarbons as motor oil
(SGCU) Silica gel cleanup sample preparation using EPA 3630C
All results in micrograms per liter ($\mu\text{g/L}$)

<0.5 Not detected at or below the detection limit ($0.5 \mu\text{g/L}$)
H Laboratory qualifier noting heavier hydrocarbons contributed to the quantitation.

Y Laboratory qualifier noting sample exhibits chromatographic pattern which does not resemble standard.
L Laboratory qualifier noting lighter hydrocarbons contributed to the quantitation.
EB Equipment blank
TB Trip blank

Table 3
Summary of Chlorinated Hydrocarbons in Groundwater
 Village Gardens
 (former Point St. George Fisheries)
 Santa Rosa, California

Well ID	Sample ID	Date	PCE	TCE	cis-1,2-DCE	1,1-DCE	1,1-DCA	1,1,1-TCA	All Other Analytes
RWQCB North Coast Water Quality Objectives ¹									
TW-1R	TW-1R-2005-10-07	10/7/2005	34	23	2.3	<0.5	<0.5	<0.5	<0.5
TW-2R	TW-2R-2005-10-07	10/7/2005	33	21	2.2	<0.5	<0.5	<0.5	<0.5
TW-3R	TW-3R-2005-10-07	10/7/2005	31	19	2.0	<0.5	<0.5	<0.5	<0.5
TW-4R	TW-4R-2005-10-07	10/7/2005	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
DUP-1	DUP-1-2005-10-07	10/7/2005	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TW-5R	TW-5R-2005-10-07	10/7/2005	10	4.1	2.1	1.7	<0.5	0.7	ND
TW-6R	TW-6R-2005-10-07	10/7/2005	22	11	4.7	2.1	<0.5	0.5	ND
	DUP-2-2005-10-07	10/7/2005	23	12	5.0	2.0	<0.5	0.6	ND
TW-7R	TW-7R-2005-10-07	10/7/2005	10	5.0	6.8	0.6	<0.5	<0.5	ND
EB	FB-2005-10-07	10/7/2005	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND
TB	TB1-2005-10-07	10/7/2005	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND

Notes:

¹Regional Water Quality Control Board (RWQCB) North Coast Region Basin Plan, 2000, Table 3-2 for domestic or municipal supply; Table 2-1 and page 2-1.00 indicates municipal and domestic supply for the Laguna de Santa Rosa hydrologic unit.

NA not applicable

All results in micrograms per liter ($\mu\text{g/L}$)

PCE tetrachloroethene

TCE trichloroethene

cis-1,2-DCE cis-1,2-dichloroethene

1,1-DCE 1,1-dichloroethene

1,1-DCA 1,1-dichloroethane

1,1,1-TCA 1,1,1-trichloroethane

All compounds detected above the Water Quality Objectives are in **bold**.

ND Analytes not detected above laboratory reporting limits.

<0.5 Not detected at or below the laboratory reporting limit ($0.5 \mu\text{g/L}$)

EB Equipment blank

TB Trip blank

Table 4
Summary of Groundwater General Chemistry Parameters
Village Gardens
(former Point St. George Fisheries)
Santa Rosa, California

Well ID	Sample ID	pH	ORP	Eh	DO	Nitrogen, as Nitrate	Manganese	Ferrous Iron	Sulfate	COD	HCO ₃	OH	Alkalinity
											mg/L		
TW-1R	TW-1R-2005-10-07	7.2	98	298	0.3	-	-	-	-	-	-	-	-
TW-2R	TW-2R-2005-10-07	7.2	83	283	0.2	-	2.1	ND	48	130	350	<1	<1
TW-3R	TW-3R-2005-10-07	7.3	87	287	0.7	-	0.51	ND	56	<10	350	<1	<1
TW-4R	TW-4R-2005-10-07	7.9	120	320	1.8	-	-	-	-	-	-	-	-
DUP-1	DUP-1-2005-10-07	-	-	-	-	-	-	-	-	-	-	-	-
TW-5R	TW-5R-2005-10-07	7.9	34	234	0.2	-	1.5	ND	250	22	380	<1	<1
TW-6R	TW-6R-2005-10-07	7.9	26	226	0.1	-	-	-	-	-	-	-	380
DUP-2	DUP-2-2005-10-07	-	-	-	-	-	-	-	-	-	-	-	-
TW-7R	TW-7R-2005-10-07	7.9	35	235	0.1	-	3.30	ND	210	47	450	<1	<1
													450

Notes:

pH Log of hydrogen ion activity
ORP Oxidation reduction potential
Eh ORP voltage reading against the Standard Hydrogen Electrode

DO Dissolved oxygen
COD Chemical Oxygen Demand

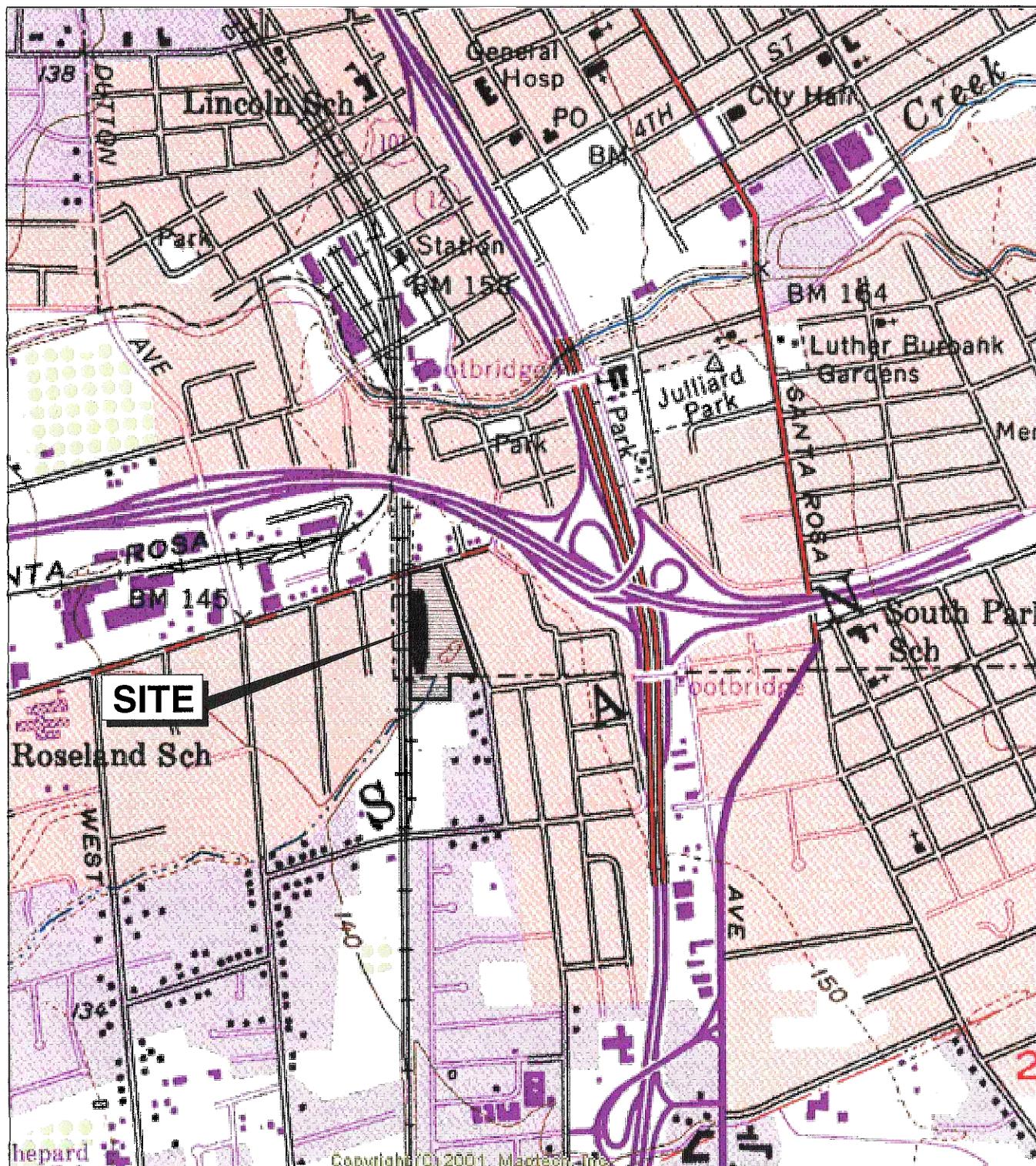
HCO₃ Bicarbonate alkalinity
CO₃ Carbonate alkalinity

OH Hydroxide alkalinity
Total as CaCO₃ Total alkalinity as carbonate

°C Degrees Celsius
mV Millivolts
mg/L Milligrams per liter
- Not analyzed
ND Not detected
All samples were collected on 10/07/2005.

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FIGURES



Base map: Maptech Inc., 2001

0 1/4 1/2 Mile

Approximate scale

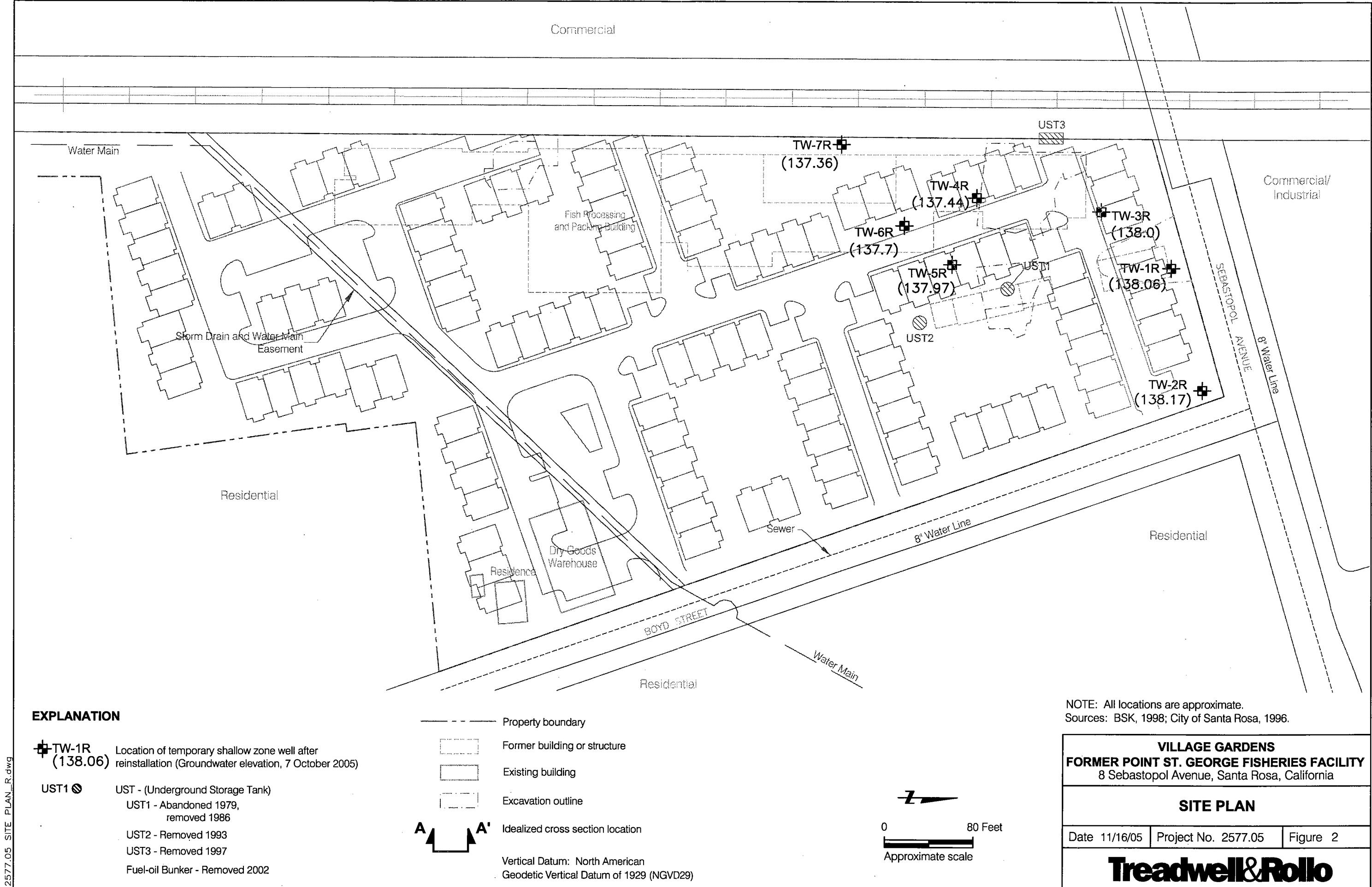


VILLAGE GARDENS DEVELOPMENT
(Former Point St. George Fisheries Facility)
8 Sebastopol Avenue, Santa Rosa, California

SITE LOCATION MAP

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Date 08/05/05 Project No. 2577.05 Figure 1



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APPENDIX A
Soil Boring Log and Well Construction Details

UNIFIED SOIL CLASSIFICATION SYSTEM

Major Divisions		Symbols	Typical Names
Coarse-Grained Soils (more than half of soil > no. 200 sieve size)	Gravels (More than half of coarse fraction > no. 4 sieve size)	GW	Well-graded gravels or gravel-sand mixtures, little or no fines
		GP	Poorly-graded gravels or gravel-sand mixtures, little or no fines
		GM	Silty gravels, gravel-sand-silt mixtures
		GC	Clayey gravels, gravel-sand-clay mixtures
	Sands (More than half of coarse fraction < no. 4 sieve size)	SW	Well-graded sands or gravelly sands, little or no fines
		SP	Poorly-graded sands or gravelly sands, little or no fines
		SM	Silty sands, sand-silt mixtures
		SC	Clayey sands, sand-clay mixtures
Fine-Grained Soils (more than half of soil < no. 200 sieve size)	Silts and Clays LL = < 50	ML	Inorganic silts and clayey silts of low plasticity, sandy silts, gravelly silts
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, lean clays
		OL	Organic silts and organic silt-clays of low plasticity
	Silts and Clays LL = > 50	MH	Inorganic silts of high plasticity
		CH	Inorganic clays of high plasticity, fat clays
		OH	Organic silts and clays of high plasticity
Highly Organic Soils		PT	Peat and other highly organic soils

SAMPLE DESIGNATIONS/SYMBOLS

GRAIN SIZE CHART		
Classification	Range of Grain Sizes	
	U.S. Standard Sieve Size	Grain Size in Millimeters
Boulders	Above 12"	Above 305
Cobbles	12" to 3"	305 to 76.2
Gravel coarse fine	3" to No. 4 3" to 3/4" 3/4" to No. 4	76.2 to 4.76 76.2 to 19.1 19.1 to 4.76
Sand coarse medium fine	No. 4 to No. 200 No. 4 to No. 10 No. 10 to No. 40 No. 40 to No. 200	4.76 to 0.074 4.76 to 2.00 2.00 to 0.420 0.420 to 0.074
Silt and Clay	Below No. 200	Below 0.074

 Unstabilized groundwater level

 Stabilized groundwater level

-  Sample taken with Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter. Darkened area indicates soil recovered
-  Classification sample taken with Standard Penetration Test sampler
-  Undisturbed sample taken with thin-walled tube
-  Disturbed sample
-  Sampling attempted with no recovery
-  Core sample
-  Analytical laboratory sample
-  Sample taken with Direct Push sampler

SAMPLER TYPE

- | | | | |
|-----|--|-----|--|
| C | Core barrel | PT | Pitcher tube sampler using 3.0-inch outside diameter, thin-walled Shelby tube |
| CA | California split-barrel sampler with 2.5-inch outside diameter and a 1.93-inch inside diameter | S&H | Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter |
| D&M | Dames & Moore piston sampler using 2.5-inch outside diameter, thin-walled tube | SPT | Standard Penetration Test (SPT) split-barrel sampler with a 2.0-inch outside diameter and a 1.5-inch inside diameter |
| O | Osterberg piston sampler using 3.0-inch outside diameter, thin-walled Shelby tube | ST | Shelby Tube (3.0-inch outside diameter, thin-walled tube) advanced with hydraulic pressure |

VILLAGE GARDENS
FORMER POINT ST. GEORGE FISHERIES FACILITY
8 Sebastopol Avenue, Santa Rosa, California

CLASSIFICATION CHART

Treadwell & Rollo

Date 11/17/05 | Project No. 2577.05 | Figure A-1

PROJECT: POINT ST. GEORGE FISHERIES FACILITY
(VILLAGE GARDENS)
8 Sebastopol Avenue, Santa Rosa, California

Log of Monitoring Well TW-1R

PAGE 1 OF 1

Boring location: See Site Plan, Figure 2

Date started: 9/20/05

Date finished: 9/20/05

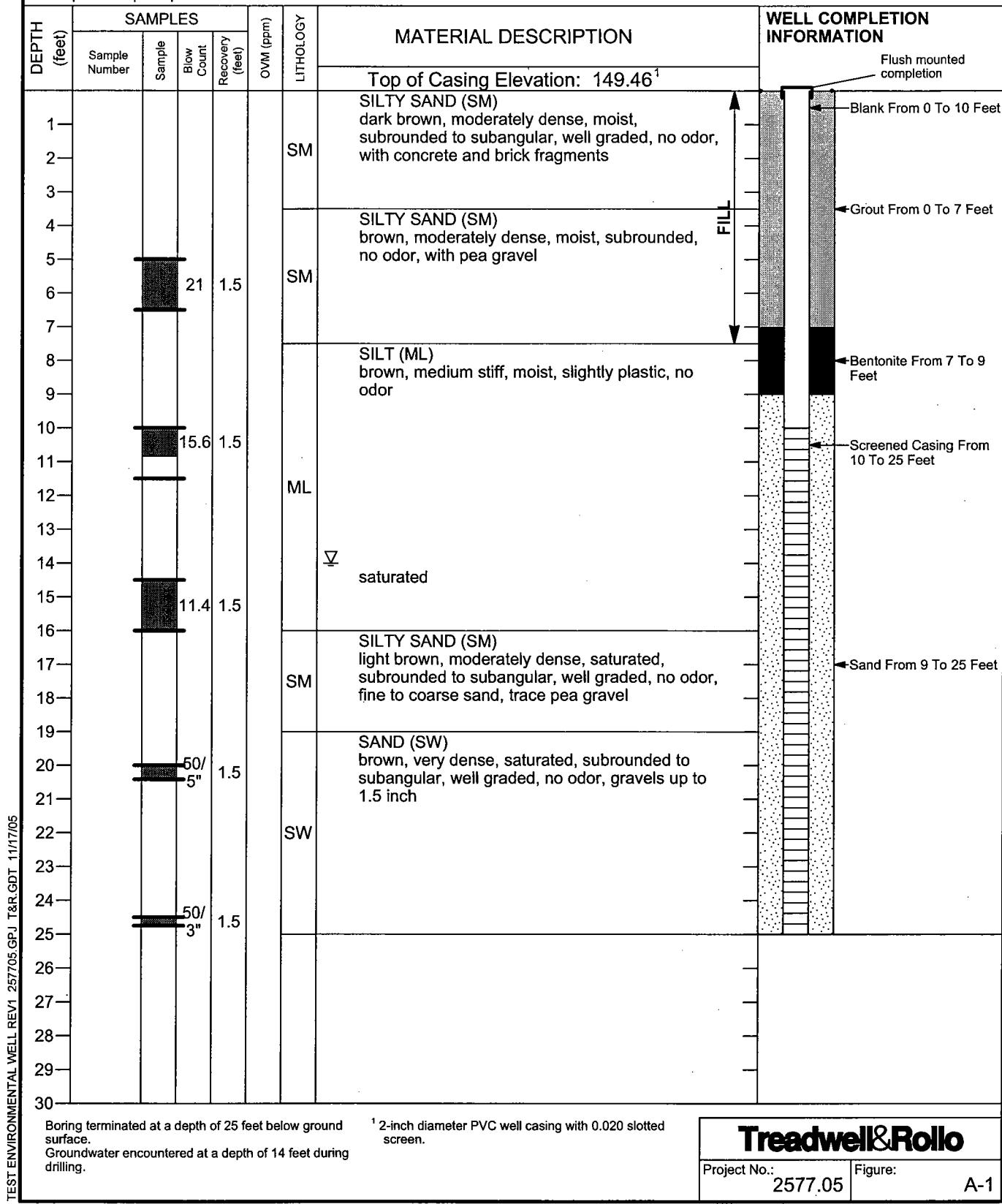
Logged by: M. Chamberlain

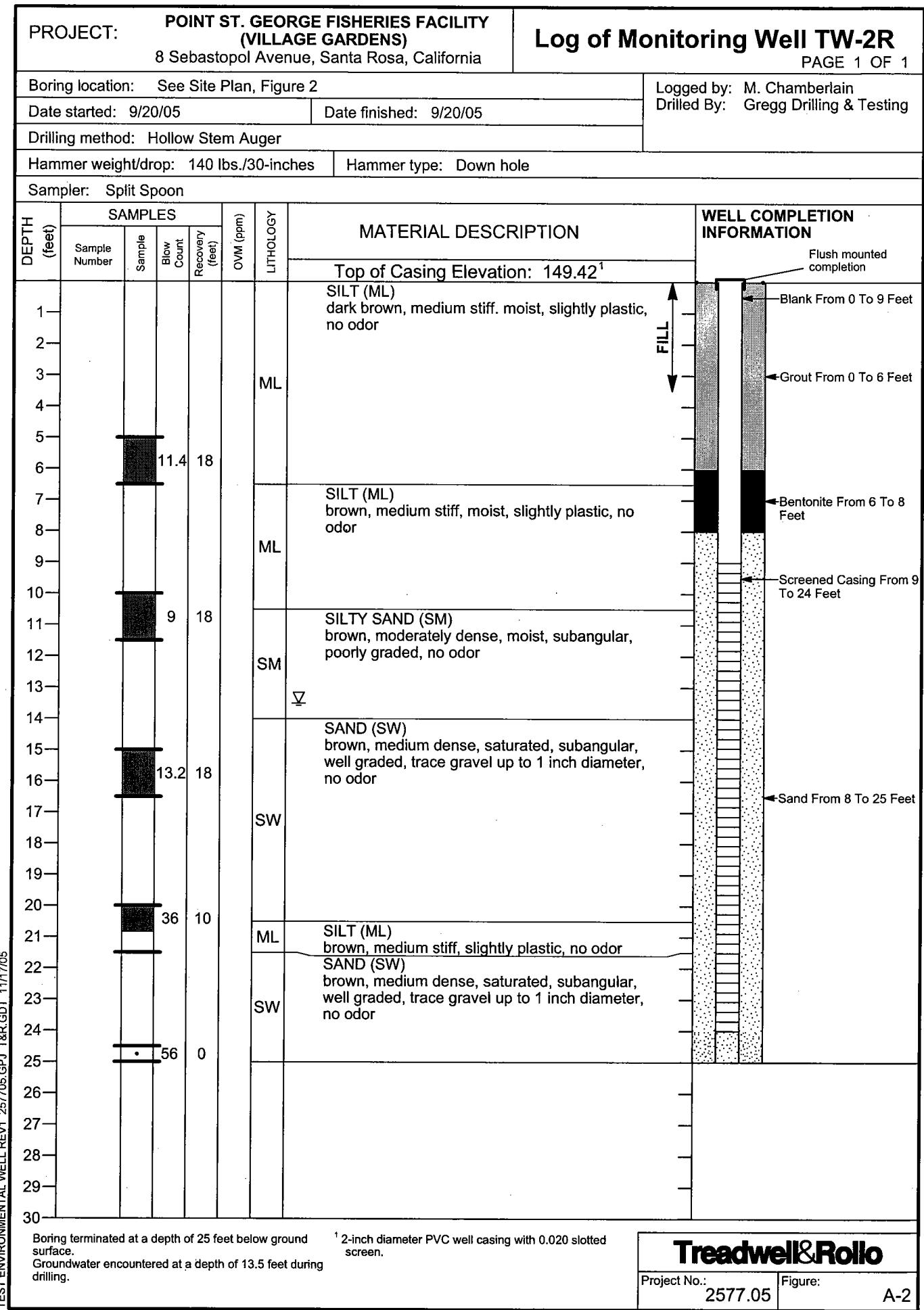
Drilled By: Gregg Drilling & Testing

Drilling method: Hollow Stem Auger

Hammer weight/drop: 140 lbs./30-inches Hammer type: Down hole

Sampler: Split Spoon



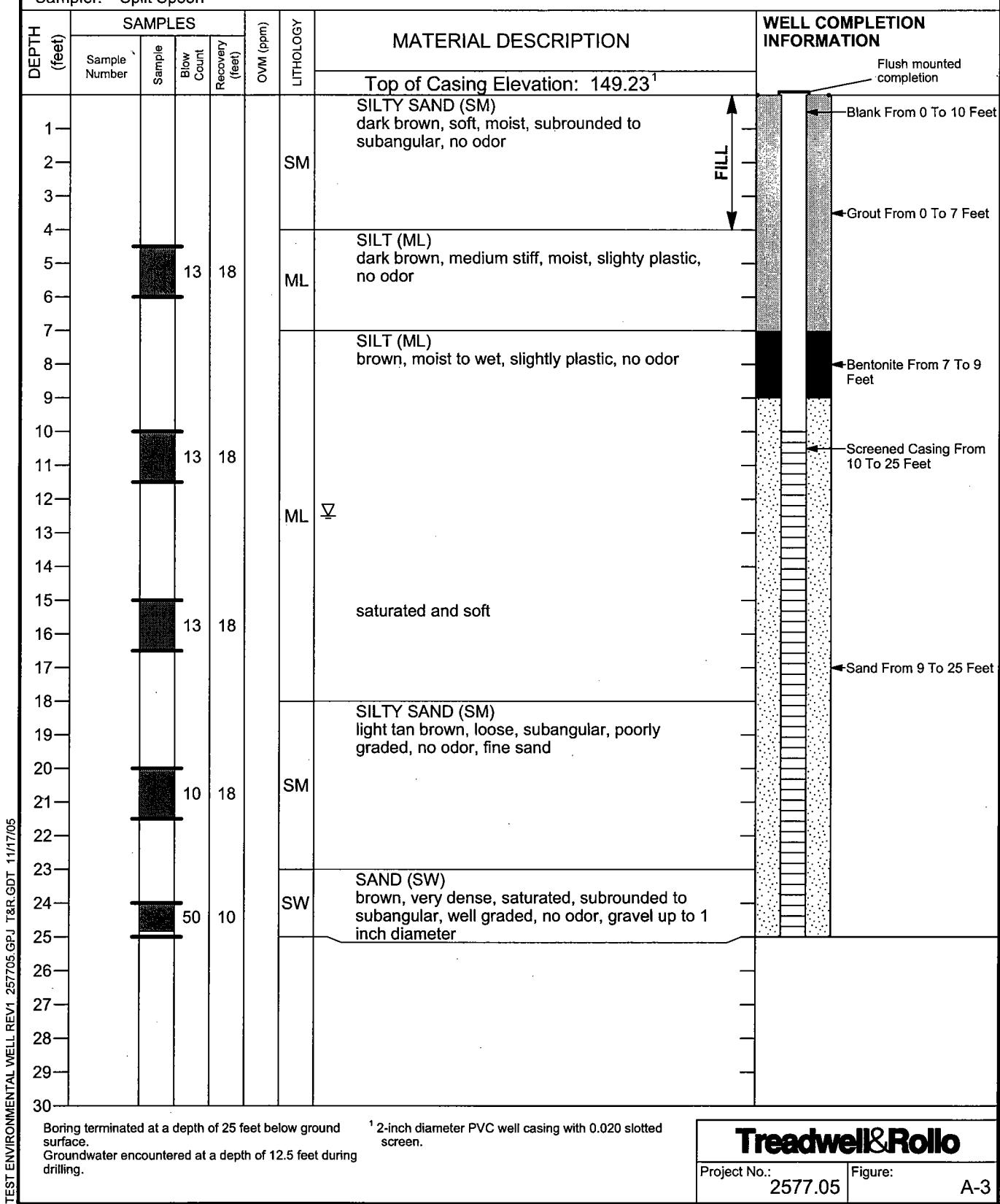


PROJECT: POINT ST. GEORGE FISHERIES FACILITY
(VILLAGE GARDENS)
8 Sebastopol Avenue, Santa Rosa, California

Log of Monitoring Well TW-3R

PAGE 1 OF 1

Boring location:	See Site Plan, Figure 2			Logged by: M. Chamberlain
Date started:	9/19/05	Date finished: 9/19/05		Drilled By: Gregg Drilling & Testing
Drilling method:	Hollow Stem Auger			
Hammer weight/drop:	140 lbs./30-inches		Hammer type:	Down hole
Sampler:	Split Spoon			



PROJECT:

**POINT ST. GEORGE FISHERIES FACILITY
(VILLAGE GARDENS)**
8 Sebastopol Avenue, Santa Rosa, California

Log of Monitoring Well TW-4R

PAGE 1 OF 1

Boring location: See Site Plan, Figure 2

Logged by: M. Chamberlain

Date started: 9/19/05

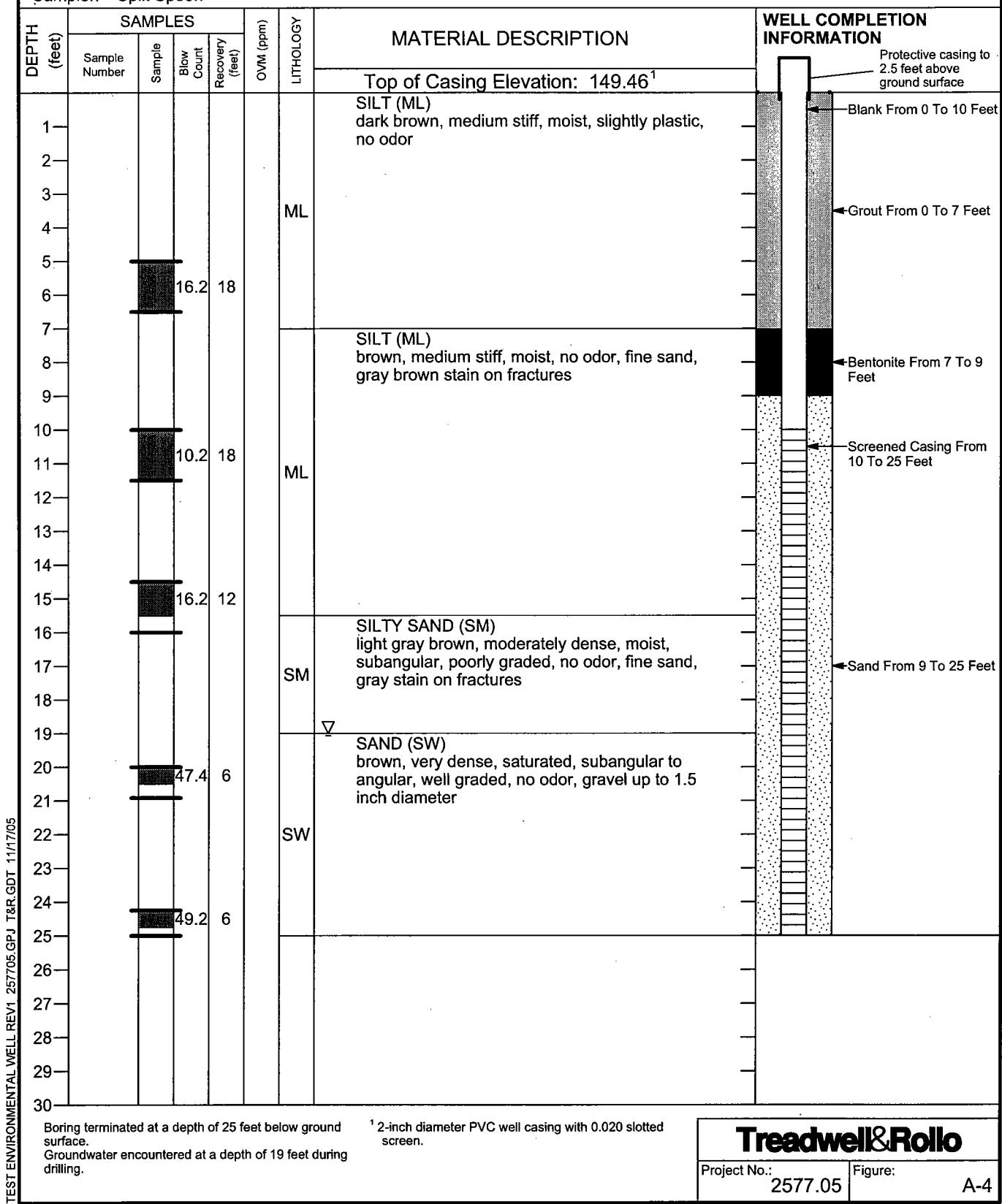
Date finished: 9/19/05

Drilled By: Gregg Drilling & Testing

Drilling method: Hollow Stem Auger

Hammer weight/drop: 140 lbs./30-inches Hammer type: Down hole

Sampler: Split Spoon



PROJECT:

**POINT ST. GEORGE FISHERIES FACILITY
(VILLAGE GARDENS)**
8 Sebastopol Avenue, Santa Rosa, California

Log of Monitoring Well TW-5R

PAGE 1 OF 1

Boring location: See Site Plan, Figure 2

Logged by: M. Chamberlain

Date started: 9/20/05

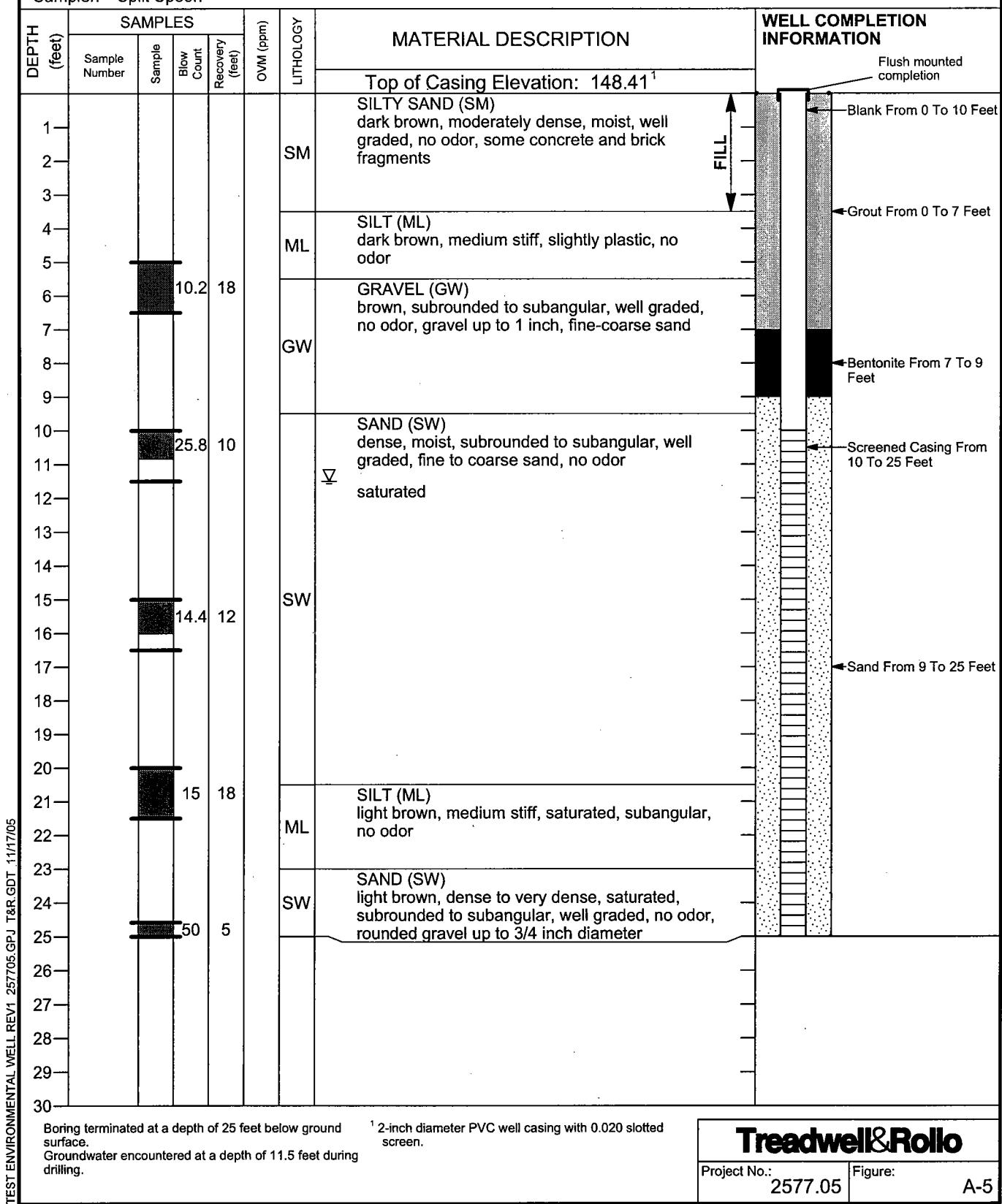
Date finished: 9/20/05

Drilled By: Gregg Drilling & Testing

Drilling method: Hollow Stem Auger

Hammer weight/drop: 140 lbs./30-inches Hammer type: Down hole

Sampler: Split Spoon



PROJECT: POINT ST. GEORGE FISHERIES FACILITY
(VILLAGE GARDENS)
8 Sebastopol Avenue, Santa Rosa, California

Log of Monitoring Well TW-6R

PAGE 1 OF 1

Boring location: See Site Plan, Figure 2

Logged by: M. Chamberlain

Date started: 9/19/05

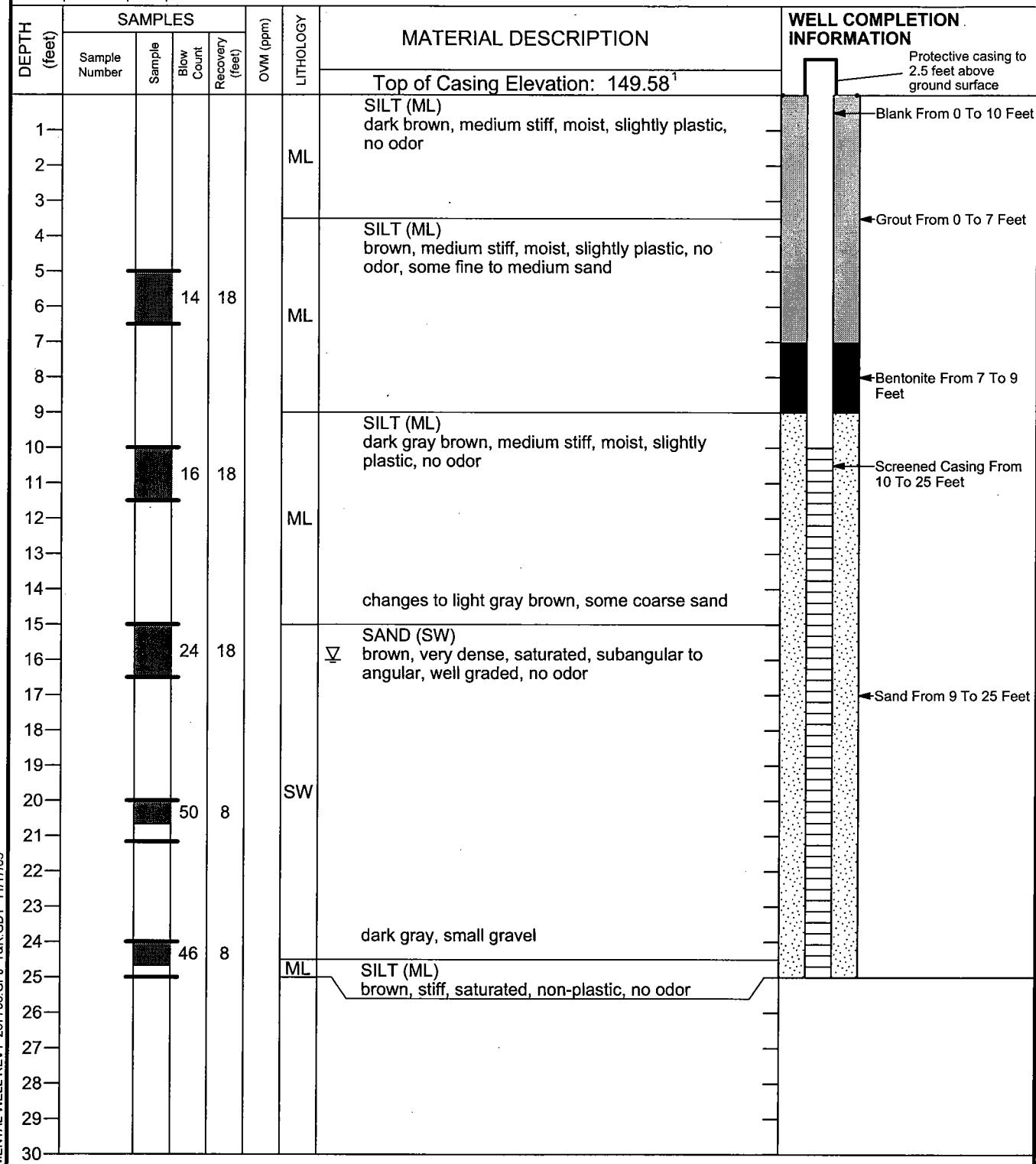
Date finished: 9/19/05

Drilled By: Gregg Drilling & Testing

Drilling method: Hollow Stem Auger

Hammer weight/drop: 140 lbs./30-inches Hammer type: Down hole

Sampler: Split Spoon



TEST ENVIRONMENTAL WELL REV1 257705 GPJ T&R GDT 11/11/05

Boring terminated at a depth of 25 feet below ground surface.
Groundwater encountered at a depth of 16 feet during drilling.

12-inch diameter PVC well casing with 0.020 slotted screen.

Treadwell & Rollo

Project No.: 2577.05 Figure:

A-6

PROJECT: POINT ST. GEORGE FISHERIES FACILITY
(VILLAGE GARDENS)
8 Sebastopol Avenue, Santa Rosa, California

Log of Monitoring Well TW-7R

PAGE 1 OF 1

Boring location: See Site Plan, Figure 2

Logged by: M. Chamberlain

Date started: 9/19/05

Date finished: 9/19/05

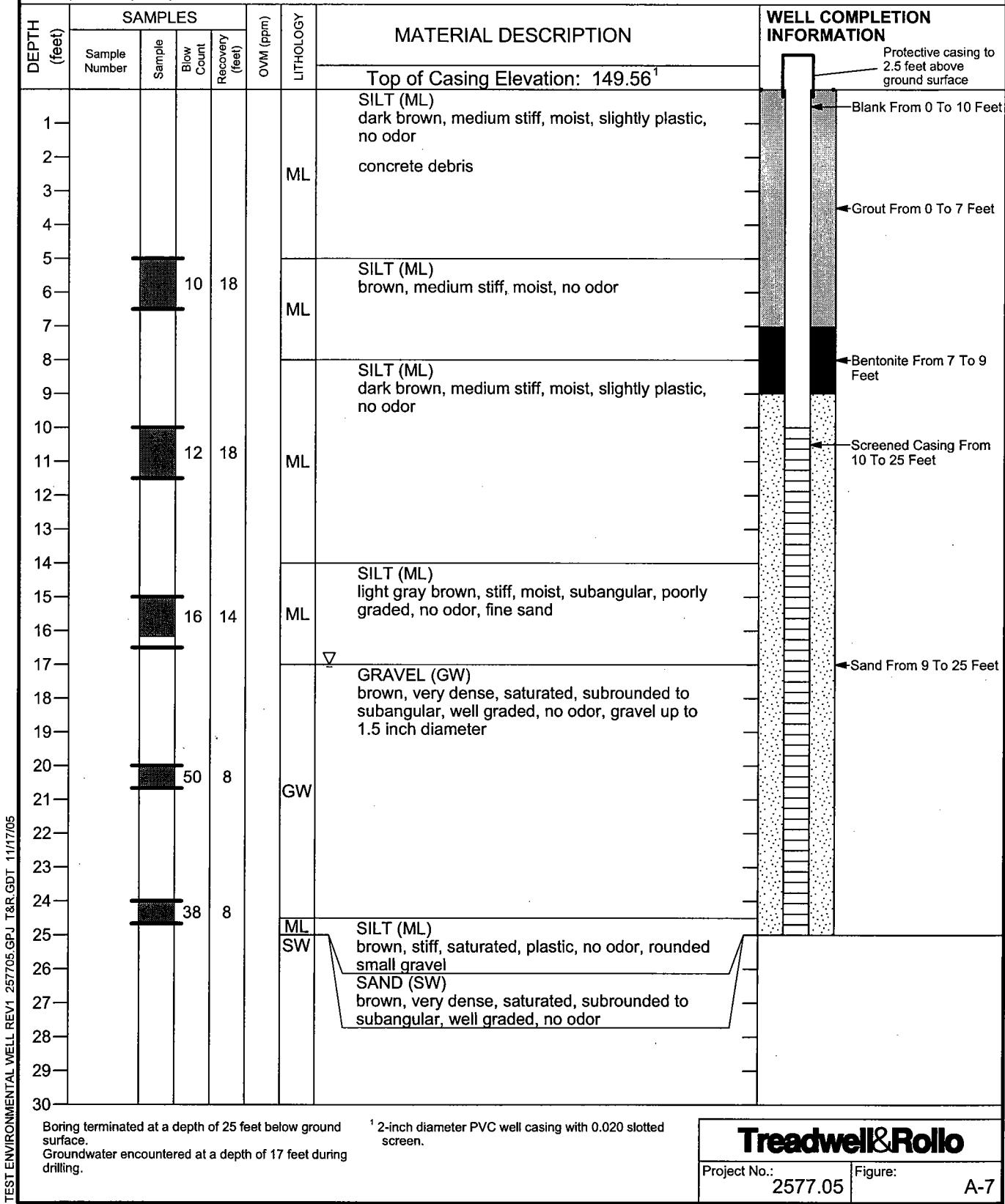
Drilled By: Gregg Drilling & Testing

Drilling method: Hollow Stem Auger

Hammer weight/drop: 140 lbs./30-inches

Hammer type: Down hole

Sampler: Split Spoon



Treadwell & Rollo

APPENDIX B
Well Development Logs

MONITORING WELL DEVELOPMENT LOG

All measurements taken from:

Protective Casing Ground Level

Well Number	<u>THW-1R</u>		
Date	<u>10-3-05</u>		
Time Start:	<u>10:20</u>	End:	<u>11:45</u>
Client	<u>TREASURE IS POND</u>		
Project	<u>PT. ST. GEORGE FISHERIES</u>		
Job Number			
Installation Date			
Well Diameter	<u>21</u>		

Borehole Diameter	<u>8'</u>
Screen Length	<u>1</u>
Measured Depth (pre-development)	<u>24.1</u>
Measured Depth (post-development)	<u>24.0</u>
Static Water Level (ft.)	<u>11.5</u>
Standing Water Column (ft.)	<u>13.2</u>
One Annulus Volume (gal.)	<u>2,126</u>
One Annulus Vol. (gal.)	<u>2,126</u>

Minimum Gai to be Purged	<u>2A</u>
Development Method	<u>SUREL - B&L - P&D</u>
Purging Equipment	<u>SS Bawler, 2" Pump</u>
Water Level Equipment	<u>Sovant</u>
pH/EC Meter	<u>HORIBA U-1D</u>
Turbidity Meter	<u>HORIBA U-1D</u>
Other	

Sample ID

Page 1 of

Time	Amount Purged (gal)	Field Parameters Measured						Comments	Field Tech.
		pH	EC	Turbidity	D.O.	Temp.	SAL.	GPM W.L.	
1106	19	7.42	0.743	>999	—	19.1	0.03	1.5 / 12.03	Banded 5 gal - Solved 15 min
1110	25	7.27	0.701	>999	—	19.1	0.03	1.5 / 12.03	BAULEO 10 gal.
1114	31	7.25	0.678	>999	—	19.2	0.02	1.5 / 12.03	SET PULP
1118	37	7.25	0.681	>999	—	19.3	0.02	1.5 / 12.03	
1122	43	7.28	0.683	>999	—	19.4	0.02	1.5 / 12.03	
1126	49	7.28	0.680	>999	—	19.6	0.02	1.5 / 12.03	
1130	55	7.29	0.681	>999	—	19.7	0.02	1.5 / 12.03	

FINAL FIELD PARAMETER MEASUREMENTS

GREGG

MONITORING WELL DEVELOPMENT LOG

Page _____ of _____

All measurements taken from: Top of Casing Protective Casing Ground Level

Sample ID _____

Well Number TW-22 Borehole Diameter 8"
 Date 10-3-05 Screen Length 19.87
 Time Start: 8:20 End: 10:15 Measured Depth (pre-development) 23.91
 Client TRENDIEUL & POUD Measured Depth (post-development) 11.15
 Project PT. ST. GEORGE FISHERIES Static Water Level (ft.) 11.76
 Job Number Standing Water Column (ft.) 11.76
 Installation Date One Well Volume (gal.) 2,04
 Well Diameter 2" One Annulus Vol. (gal.)

Time	Amount Purged (gal.)	Field Parameters Measured						Comments	Field Tech.
		pH	EC	Turbidity	O.O.	Temp.	SAL.		
0937	1.5	7.51	473	>995	-	18.2	0.02	1.5 / 11.31	Bailed 4 gal - Start Surge
0939	28	7.04	0.656	>999	-	18.4	0.02	1.5 / 11.31	Bailed 10 gal - Re-Surge 10 min
0943	34	7.00	0.665	>995	-	18.5	0.02	1.5 / 11.32	Bailed 6 gal
0945	37	7.00	0.643	>999	-	18.5	0.02	1.5 / 11.32	SET PUMP
0948	40	7.05	0.636	>999	-	18.4	0.02	1.5 / 11.31	
0950	43	7.09	0.635	>999	-	18.3	0.02	1.5 / 11.31	
0952	46	7.08	0.638	717	-	18.3	0.02	1.5 / 11.31	
0954	49	7.09	0.633	371	-	18.4	0.02	1.5 / 11.31	
0956	52	7.01	0.633	132	-	18.4	0.0	1.5 / 11.31	
0958	55	7.08	0.631	68	-	18.3	0.0	1.5 / 11.31	

FINAL FIELD PARAMETER MEASUREMENTS

MONITORING WELL DEVELOPMENT LOG

Page _____ of _____

All measurements taken from: Top of Casing Protective Casing Ground Level

Sample ID _____

Well Number TW-4K Borehole Diameter 6"
 Date 10-4-05 Screen Length 0'
 Qty. of Drilling Fluid Lost 27
 Minimum Gal. to be Purged 27
 Development Method SURGE - BAIL - Pump

Time Start: 9:05 End: 11:00
 Client TEADWELL & BOULD
 Project Pt. St. George Fisheries
 Job Number _____
 Installation Date 10/05/05
 Well Diameter 2"
 Measured Depth (pre-development) 25.80
 Measured Depth (post-development) 27.37
 Static Water Level (ft.) 11.85
 Standing Water Column (ft.) 15.52
 One Well Volume (gal.) 2,64
 One Annulus Vol. (gal.) 0

Time	Amount Purged (gal.)	Field Parameters Measured						Comments	Field Tech.
		pH	EC	Turbidity	D.O.	D.O. Temp.	SAL.	GPM	
1018	20	8.17	5.24	>999	-	20.0	0.17	1.5 / ~	Bailed 5 gal. - SURGED 15 gal
1021	2.5	8.03	5.00	>999	-	19.9	0.26	1.5 / 19.3	Bailed 5 gal - SURGED 15 gal
1025	31	8.00	4.91	>999	-	19.9	0.25	1.0 / 19.6	Bailed 5 gal
1030	35	7.98	4.98	>999	-	19.8	0.25	1.0 / 19.9	Star Pump
1035	40	7.96	4.87	807	-	19.8	0.25	1.0 / 20.2	Lowered Pump Rate @ 1021
1040	45	7.93	4.88	695	-	19.9	0.25	1.0 / 20.45	Due to Debris Down
1045	50	7.92	4.84	>999	-	20.0	0.25	1.0 / 20.7	
1050	55	7.90	4.83	>999	-	20.0	0.25	1.0 / 20.9	

FINAL FIELD PARAMETER MEASUREMENTS



MONITORING WELL DEVELOPMENT LOG

MONITORING WELL DEVELOPMENT LOG

All measurements taken from: Top of Casing Protective Casing Ground Level

Well Number TH-7R
Date 10-4-05
Time Start: 11:10 End: 1:00
Client Treadwell & Roud
Project Pt. St. George Fisheries
Job Number _____
Installation Date _____
Well Diameter 2"

Sample ID

City of Drilling Fluid | 9st

Borehole Diameter	8"	Minimum Gal. to be Purged	28
Screen Length		Development Method	Sulfur - Bar - Pump
Measured Depth (pre-development)	27.55	Purging Equipment	SS BAILEY, 2" Pump
Measured Depth (post-development)	22.57	Water Level Equipment	SOLINST
Static Water Level (ft.)	11.17	pH/EC Meter	HORIBA U-10
Standing Water Column (ft.)	16.40	Turbidity Meter	HORIBA U-10
Annulus Volume (gal.)	2.79	Other	
One Annulus Vol. (gal.)			

Time	Amount Purged (gal.)	Field Parameters Measured						Comments	Field Tech.
		pH	EC	Turbidity	D.O.	Temp.	SAL.		
1219	20	8.13	1.42	2920	—	19.8	0.06	1.5 / 14.40 Barrels 5 gal - success 15 min	
1222	25	7.69	1.45	2920	—	19.7	0.06	1.5 / 14.55 Report	
1226	31	7.65	1.44	922	—	19.5	0.06	1.5 / 14.6 Barrels 5 gal	
1230	37	7.55	1.44	741	—	19.4	0.06	1.5 / 14.61 465 Pump	
1234	43	7.53	1.45	306	—	19.4	0.06	1.5 / 14.62	
1238	49	7.52	1.45	191	—	19.5	0.06	1.5 / 14.62	
1242	55	7.50	1.45	126	—	19.5	0.06	1.5 / 14.63	

FINAL FIELD PARAMETER MEASUREMENTS

Treadwell & Rollo

APPENDIX C
Groundwater Monitoring and Sampling Field Forms

WELL GAUGING DATA

Project # 051007-BM1

Date 10/7/05

Client Treadwell & Ross

Site Pt. St. George Fish

LOW FLOW WELL MONITORING DATA SHEET

Project #: 051007-BM1	Client:	Treadwell & Rollo
Sampler: Brandon Myers	Start Date:	10/7/2005
Well I.D.: Tw-11	Well Diameter:	(2) 3 4 6 8
Total Well Depth: 24.40	Depth to Water	Pre: 11.40 Post: 11.43
Depth to Free Product:	Thickness of Free Product (feet):	
Referenced to: PVC	Grade	Flow Cell Type: VSZ SSG

Purge Method: 2" Grundfos Pump

Peristaltic Pump

Bladder Pump

Sampling Method: Dedicated Tubing

New Tubing

Other *Do not have*

Flow Rate: 1cc/min

Burn Depth: $C \sqrt{z} = ?$

Did well dewater? Yes No

Amount actually evacuated: 10

Sampling Time: 9:05

Sampling Date: 10/7/05

Sample I.D.: ED-12345-007

Laboratory: Curtis & Tompkins

Analyzed for: TPH_a TPH_b VOC Alkalinity Chloride Manganese FE2 Nitrate Sulfate ROD COD

Equipment Blank I.D.: @ Time

Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 051007-BM1	Client:	Treadwell & Rollo
Sampler: Brandon Myers	Start Date:	10/7/2005
Well I.D.: TW-2R	Well Diameter:	2 3 4 6 8
Total Well Depth: 23.73	Depth to Water	Pre: 11.25 Post: 11.32
Depth to Free Product:	Thickness of Free Product (feet):	
Referenced to: PVC	Grade	Flow Cell Type: YST SSC

Purge Method: 2" Grundfos Pump ✓

Peristaltic Pump

Bladder Pump

Sampling Method: Dedicated Tubing

New Tubing

Other D.sq. 6a-1

Flow Rate: 1 gpm

Pump Depth: C.V. = 2

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals or mL)	Observations
918	18.44	7.3	706	>1000	0.2	98	2	
920	18.48	7.3	706	>1000	0.1	95	4	
922	18.49	7.2	707	277 >1000	0.1	91	6	
925	18.50	7.2	707	115	0.1	86	8	
927	18.51	7.2	707	108	0.1	85	10	
929	18.51	7.2	708	105	0.2	83	12	
Fe2	0 mg/l							

Fe₂O₃ mg./g.

Did well dewater? Yes No

Amount actually evacuated: /2

Sampling Time: 9:55

Sampling Date: 10/7/05

Sample I.D.: T-10-215-1-1-7

Laboratory: Curtis & Tompkins

Analyzed for:

TPH_d TPH_p VOC Alkalinity Chloride Manganese FE? Nitrate Sulfate BOD COD

Equipment Blank I.D. :

1

Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 051007-BM1	Client:	Treadwell & Rollo
Sampler: Brandon Myers	Start Date:	10/7/2005
Well I.D.: TW-3R	Well Diameter:	(2) 3 4 6 8 _____
Total Well Depth: 24.41	Depth to Water	Pre: 11.23 Post: 12.28
Depth to Free Product:	Thickness of Free Product (feet):	
Referenced to: PVC	Grade	Flow Cell Type: VSF 554

Purge Method: 2" Grundfos Pump

Peristaltic Pump

Bladder Pump

Sampling Method: Dedicated Tubing

New Tubing

Other *USA 64.1*

Flow Rate: 1gpm

Pump Depth: C.V. = 2.1

Did well dewater? Yes

No

Amount actually evacuated: 85

Sampling Time: 10/05

Sampling Date: 10/7/05

Sample I.D.: TW-3P-2025-10-07

Laboratory: Curtis & Tompkins

Analyzed for:

TPHd TPHg VOC Alkalinity Chloride Manganese FE2 Nitrate Sulfate BOD COD

Equipment Blank I.D. :

2

Time

Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 051007-BM1	Client:	Treadwell & Rollo
Sampler: Brandon Myers	Start Date:	10/7/2005
Well I.D.: TW-4K	Well Diameter:	(2) 3 4 6 8
Total Well Depth: 2720	Depth to Water	Pre: 12.02 Post: 12.86
Depth to Free Product:	Thickness of Free Product (feet):	
Referenced to: PVC	Grade	Flow Cell Type: VST 554

Purge Method: 2" Grundfos Pump
Sampling Method: Dedicated Tubing

Peristaltic Pump New Tubing

Bladder Pump
Other D.S.P. b.s., /

Flow Rate: 1 gpm

Pump Depth: C.V. = 2.4

Did well dewater? Yes No

Amount actually evacuated: 10

Sampling Time: 10:35

Sampling Date: 10/7/05

Sample I.D.: TW-4P-ZCHS-10-07

Laboratory: Curtis & Tompkins

Analyzed for: TPHd TPHg VOC Alkalinity Chloride Manganese FE2 Nitrate Sulfate BOD COD

Equipment Blank I.D.: @ Time

Duplicate I.D.: DUPI-2005-10-07

LOW FLOW WELL MONITORING DATA SHEET

Project #: 051007-BM1	Client:	Treadwell & Rollo
Sampler: Brandon Myers	Start Date:	10/7/2005
Well I.D.: Tw-5R	Well Diameter:	(2) 3 4 6 8 _____
Total Well Depth: 24.41	Depth to Water	Pre: 10.44 Post: 11.02
Depth to Free Product:	Thickness of Free Product (feet):	
Referenced to: PVC	Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump✓

Sampling Method: Dedicated Tubing

Peristaltic Pump

New Tubing

Bladder Pump

Flow Rate:

Pump Depth: 6.5' = 2.2

Did well dewater? Yes No

Amount actually evacuated: //

Sampling Time: 100

Sampling Date: 10/7/05

Sample I.D.: T-50-2005-11-07

Laboratory: Curtis & Tompkins

Analyzed for:

TPHd TPHg VOC Alkalinity Chloride Manganese EE2 Nitrate Sulfate BOD COD

Equipment Blank ID:

Time

Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 051007-BM1	Client:	Treadwell & Rollo
Sampler: Brandon Myers	Start Date:	10/7/2005
Well I.D.: TW-6K	Well Diameter:	(2) 3 4 6 8
Total Well Depth: 27.12	Depth to Water	Pre: 11.87 Post: 12.27
Depth to Free Product:	Thickness of Free Product (feet):	
Referenced to: PVC	Grade	
	Flow Cell Type: YSI 556	

Purge Method: 2" Grundfos Pump ✓
Sampling Method: Dedicated Tubing ✓

Sampling Method: Dedicated Tubing

Peristaltic Pump

New Tubing

Bladder Pump

Other Dso. ba./

Pump Depth: C.V. = 2.4

Did well dewater? Yes No

Amount actually evacuated: 12.5

Sampling Time: 1125

Sampling Date: 10/7/05

Sample I.D.: TW-10K-2018-01-07

Laboratory: Curtis & Tompkins

Analyzed for: TPHd QTPHg VO₅ Alkalinity Chloride Manganese EE2 Nitrate Sulfate ROD COD

Equipment Blank I.D.: @ Time

Duplicate I.D.: DCP-2005-10-07

LOW FLOW WELL MONITORING DATA SHEET

Project #: 051007-BM1	Client:	Treadwell & Rollo
Sampler: Brandon Myers	Start Date:	10/7/2005
Well I.D.: TW-7R	Well Diameter:	(2) 3 4 6 8
Total Well Depth: 27.40	Depth to Water	Pre: 12.20 Post: 12.63
Depth to Free Product:	Thickness of Free Product (feet):	
Referenced to: PVC	Grade	Flow Cell Type: YSI 556

Purge Method: 2" Grundfos Pump ✓

Sampling Method: Dedicated Tubing

Peristaltic Pump

New Tubing

Bladder Pump

Flow Rate: 1gpm

Pump Depth: $C_V \geq 24$

Did well dewater? Yes No

Amount actually evacuated: 10

Sampling Time: 11:57

Sampling Date: 10/7/05

Sample I.D.: TW-7M-7CDS-1A-07

Laboratory: Curtis & Tompkins

Analyzed for:

TPH_d TPH_g VOC Alkalinity Chloride Manganese FE2 Nitrate Sulfate BOD COD

Field @
Equipment Blank I.D.: FB-2005-10-07 Time 1205

Duplicate I.D.:

S-I or Purge Water Drum Log

Client:

Brachwell & Rollin

Site Address:

Pt. St. George Fisheries

S.R.

STATUS OF DRUM(S) UPON ARRIVAL

Date	5/17/05	6/30/05	10/7/05			
Number of drum(s) empty:	1					
Number of drum(s) 1/4 full:						
Number of drum(s) 1/2 full:						
Number of drum(s) 3/4 full:						
Number of drum(s) full:	20		19			
Total drum(s) on site:	21	0	19			
Are the drum(s) properly labeled?	Yes		Yes			
Drum ID & Contents:						
If any drum(s) are partially or totally filled, what is the first use date:						

- If you add any SPH to an empty or partially filled drum, drum must have at least 20 gals. of Purgewater or DI Water.
- If drum contains SPH, the drum MUST be steel AND labeled with the appropriate label.
- All BTS drums MUST be labeled appropriately.

STATUS OF DRUM(S) UPON DEPARTURE

Date	5/17/05	7/1/05	10/7/05			
Number of drums empty:	1					
Number of drum(s) 1/4 full:			1			
Number of drum(s) 1/2 full:	1					
Number of drum(s) 3/4 full:						
Number of drum(s) full:	22	3	20			
Total drum(s) on site:	24		21			
Are the drum(s) properly labeled?	Yes	Yes	Yes			
Drum ID & Contents:						

LOCATION OF DRUM(S)

Describe location of drum(s): Next to P-2 Drums located at all wellheads from redevelopment

Drums left at TW-4/2

FINAL STATUS

Number of new drum(s) left on site this event	3	3	2			
Date of inspection:	5/17/05	7/1/05	10/7/05			
Drum(s) labelled properly:	Yes	Yes	Yes			
Logged by BTS Field Tech:	B.M	B.M	B.M			
Office reviewed by:	JLC 5-19-05	7-5-05 JNL	10-10-05 JK			

Treadwell & Rollo

APPENDIX D
Certified Laboratory Reports and
Chain-of-Custody Records



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

A N A L Y T I C A L R E P O R T

Prepared for:

Treadwell & Rollo
555 Montgomery Street
Suite 1300
San Francisco, CA 94111

Date: 25-OCT-05
Lab Job Number: 182368
Project ID: 2577.05
Location: Pt. St. George Fisheries

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Reviewed by:


Project Manager

Reviewed by:


Operations Manager

This package may be reproduced only in its entirety.



Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number: 182368
Client: Treadwell & Rollo
Project: 2577.05
Location: Pt. St. George Fisheries
Request Date: 10/11/05
Samples Received: 10/11/05

This hardcopy data package contains sample and QC results for eleven water samples, requested for the above referenced project on 10/11/05. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):

No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

No analytical problems were encountered.

Metals (EPA 6010B):

No analytical problems were encountered.

Ion Chromatography (EPA 300.0):

No analytical problems were encountered.

Alkalinity (EPA 310.1):

No analytical problems were encountered.

Chemical Oxygen Demand (SM 5220D):

No analytical problems were encountered.

BLAINE

1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555
 TECH SERVICES, INC.

CHAIN OF CUSTODY		BTS # 057007- <u>201</u>		
CLIENT	Treadwell & Rollo			
SITE	Point St. George Fisheries Facility Santa Rosa, CA			
C = COMPOSITE ALL CONTAINERS				

SAMPLE I.D.	DATE	TIME	MATRIX	CONTAINERS
			S= SOIL	W= H ₂ O
W_1K_2005-10-07	10/7/01	905	W	7
J_2K_2005-10-07	-	935	W	10
J_3K_2005-10-07	-	1005	W	10
J_4K_2005-10-07	-	1035	W	7
J_5K_2005-10-07	-	1100	W	10
J_6K_2005-10-07	-	1125	W	7
J_7K_2005-10-07	-	1150	W	10
J_8K_2005-10-07	-	-	W	7
J_9K_2005-10-07	-	-	W	7
J_10K_2005-10-07	-	-	W	7
J_11K_2005-10-07	-	-	W	7
J_12K_2005-10-07	-	-	W	7
J_13K_2005-10-07	-	-	W	7
J_14K_2005-10-07	-	-	W	7
J_15K_2005-10-07	-	-	W	7
J_16K_2005-10-07	-	-	W	7
J_17K_2005-10-07	-	-	W	7
J_18K_2005-10-07	-	-	W	7
J_19K_2005-10-07	-	-	W	7
J_20K_2005-10-07	-	-	W	7
J_21K_2005-10-07	-	-	W	7
J_22K_2005-10-07	-	-	W	7
J_23K_2005-10-07	-	-	W	7
J_24K_2005-10-07	-	-	W	7
J_25K_2005-10-07	-	-	W	7
J_26K_2005-10-07	-	-	W	7
J_27K_2005-10-07	-	-	W	7
J_28K_2005-10-07	-	-	W	7
J_29K_2005-10-07	-	-	W	7
J_30K_2005-10-07	-	-	W	7
J_31K_2005-10-07	-	-	W	7
J_32K_2005-10-07	-	-	W	7
J_33K_2005-10-07	-	-	W	7
J_34K_2005-10-07	-	-	W	7
J_35K_2005-10-07	-	-	W	7
J_36K_2005-10-07	-	-	W	7
J_37K_2005-10-07	-	-	W	7
J_38K_2005-10-07	-	-	W	7
J_39K_2005-10-07	-	-	W	7
J_40K_2005-10-07	-	-	W	7
J_41K_2005-10-07	-	-	W	7
J_42K_2005-10-07	-	-	W	7
J_43K_2005-10-07	-	-	W	7
J_44K_2005-10-07	-	-	W	7
J_45K_2005-10-07	-	-	W	7
J_46K_2005-10-07	-	-	W	7
J_47K_2005-10-07	-	-	W	7
J_48K_2005-10-07	-	-	W	7
J_49K_2005-10-07	-	-	W	7
J_50K_2005-10-07	-	-	W	7
J_51K_2005-10-07	-	-	W	7
J_52K_2005-10-07	-	-	W	7
J_53K_2005-10-07	-	-	W	7
J_54K_2005-10-07	-	-	W	7
J_55K_2005-10-07	-	-	W	7
J_56K_2005-10-07	-	-	W	7
J_57K_2005-10-07	-	-	W	7
J_58K_2005-10-07	-	-	W	7
J_59K_2005-10-07	-	-	W	7
J_60K_2005-10-07	-	-	W	7
J_61K_2005-10-07	-	-	W	7
J_62K_2005-10-07	-	-	W	7
J_63K_2005-10-07	-	-	W	7
J_64K_2005-10-07	-	-	W	7
J_65K_2005-10-07	-	-	W	7
J_66K_2005-10-07	-	-	W	7
J_67K_2005-10-07	-	-	W	7
J_68K_2005-10-07	-	-	W	7
J_69K_2005-10-07	-	-	W	7
J_70K_2005-10-07	-	-	W	7
J_71K_2005-10-07	-	-	W	7
J_72K_2005-10-07	-	-	W	7
J_73K_2005-10-07	-	-	W	7
J_74K_2005-10-07	-	-	W	7
J_75K_2005-10-07	-	-	W	7
J_76K_2005-10-07	-	-	W	7
J_77K_2005-10-07	-	-	W	7
J_78K_2005-10-07	-	-	W	7
J_79K_2005-10-07	-	-	W	7
J_80K_2005-10-07	-	-	W	7
J_81K_2005-10-07	-	-	W	7
J_82K_2005-10-07	-	-	W	7
J_83K_2005-10-07	-	-	W	7
J_84K_2005-10-07	-	-	W	7
J_85K_2005-10-07	-	-	W	7
J_86K_2005-10-07	-	-	W	7
J_87K_2005-10-07	-	-	W	7
J_88K_2005-10-07	-	-	W	7
J_89K_2005-10-07	-	-	W	7
J_90K_2005-10-07	-	-	W	7
J_91K_2005-10-07	-	-	W	7
J_92K_2005-10-07	-	-	W	7
J_93K_2005-10-07	-	-	W	7
J_94K_2005-10-07	-	-	W	7
J_95K_2005-10-07	-	-	W	7
J_96K_2005-10-07	-	-	W	7
J_97K_2005-10-07	-	-	W	7
J_98K_2005-10-07	-	-	W	7
J_99K_2005-10-07	-	-	W	7
J_100K_2005-10-07	-	-	W	7
J_101K_2005-10-07	-	-	W	7
J_102K_2005-10-07	-	-	W	7
J_103K_2005-10-07	-	-	W	7
J_104K_2005-10-07	-	-	W	7
J_105K_2005-10-07	-	-	W	7
J_106K_2005-10-07	-	-	W	7
J_107K_2005-10-07	-	-	W	7
J_108K_2005-10-07	-	-	W	7
J_109K_2005-10-07	-	-	W	7
J_110K_2005-10-07	-	-	W	7
J_111K_2005-10-07	-	-	W	7
J_112K_2005-10-07	-	-	W	7
J_113K_2005-10-07	-	-	W	7
J_114K_2005-10-07	-	-	W	7
J_115K_2005-10-07	-	-	W	7
J_116K_2005-10-07	-	-	W	7
J_117K_2005-10-07	-	-	W	7
J_118K_2005-10-07	-	-	W	7
J_119K_2005-10-07	-	-	W	7
J_120K_2005-10-07	-	-	W	7
J_121K_2005-10-07	-	-	W	7
J_122K_2005-10-07	-	-	W	7
J_123K_2005-10-07	-	-	W	7
J_124K_2005-10-07	-	-	W	7
J_125K_2005-10-07	-	-	W	7
J_126K_2005-10-07	-	-	W	7
J_127K_2005-10-07	-	-	W	7
J_128K_2005-10-07	-	-	W	7
J_129K_2005-10-07	-	-	W	7
J_130K_2005-10-07	-	-	W	7
J_131K_2005-10-07	-	-	W	7
J_132K_2005-10-07	-	-	W	7
J_133K_2005-10-07	-	-	W	7
J_134K_2005-10-07	-	-	W	7
J_135K_2005-10-07	-	-	W	7
J_136K_2005-10-07	-	-	W	7
J_137K_2005-10-07	-	-	W	7
J_138K_2005-10-07	-	-	W	7
J_139K_2005-10-07	-	-	W	7
J_140K_2005-10-07	-	-	W	7
J_141K_2005-10-07	-	-	W	7
J_142K_2005-10-07	-	-	W	7
J_143K_2005-10-07	-	-	W	7
J_144K_2005-10-07	-	-	W	7
J_145K_2005-10-07	-	-	W	7
J_146K_2005-10-07	-	-	W	7
J_147K_2005-10-07	-	-	W	7
J_148K_2005-10-07	-	-	W	7
J_149K_2005-10-07	-	-	W	7
J_150K_2005-10-07	-	-	W	7
J_151K_2005-10-07	-	-	W	7
J_152K_2005-10-07	-	-	W	7
J_153K_2005-10-07	-	-	W	7
J_154K_2005-10-07	-	-	W	7
J_155K_2005-10-07	-	-	W	7
J_156K_2005-10-07	-	-	W	7
J_157K_2005-10-07	-	-	W	7
J_158K_2005-10-07	-	-	W	7
J_159K_2005-10-07	-	-	W	7
J_160K_2005-10-07	-	-	W	7
J_161K_2005-10-07	-	-	W	7
J_162K_2005-10-07	-	-	W	7
J_163K_2005-10-07	-	-	W	7
J_164K_2005-10-07	-	-	W	7
J_165K_2005-10-07	-	-	W	7
J_166K_2005-10-07	-	-	W	7
J_167K_2005-10-07	-	-	W	7
J_168K_2005-10-07	-	-	W	7
J_169K_2005-10-07	-	-	W	7
J_170K_2005-10-07	-	-	W	7
J_171K_2005-10-07	-	-	W	7
J_172K_2005-10-07	-	-	W	7
J_173K_2005-10-07	-	-	W	7
J_174K_2005-10-07	-	-	W	7
J_175K_2005-10-07	-	-	W	7
J_176K_2005-10-07	-	-	W	7
J_177K_2005-10-07	-	-	W	7
J_178K_2005-10-07	-	-	W	7
J_179K_2005-10-07	-	-	W	7
J_180K_2005-10-07	-	-	W	7
J_181K_2005-10-07	-	-	W	7
J_182K_2005-10-07	-	-	W	7
J_183K_2005-10-07	-	-	W	7
J_184K_2005-10-07	-	-	W	7
J_185K_2005-10-07	-	-	W	7
J_186K_2005-10-07	-	-	W	7
J_187K_2005-10-07	-	-	W	7
J_188K_2005-10-07	-	-	W	7
J_189K_2005-10-07	-	-	W	7
J_190K_2005-10-07	-	-	W	7
J_191K_2005-10-07	-	-	W	7
J_192K_2005-10-07	-	-	W	7
J_193K_2005-10-07	-	-	W	7
J_194K_2005-10-07	-	-	W	7
J_195K_2005-10-07	-	-	W	7
J_196K_2005-10-07	-	-	W	7
J_197K_2005-10-07	-	-	W	7
J_198K_2005-10-07	-	-	W	7
J_199K_2005-10-07	-	-	W	7
J_200K_2005-10-07	-	-	W	7
J_201K_2005-10-07	-	-	W	7
J_202K_2005-10-07	-	-	W	7
J_203K_2005-10-07	-	-	W	7
J_204K_2005-10-07	-	-	W	7
J_205K_2005-10-07	-	-	W	7

CONDUCT ANALYSIS TO DETECT		LAB		Curtis & Tompkins	
		ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND		DHS # _____	
		<input checked="" type="checkbox"/> EPA		<input type="checkbox"/> RWQCB REGION	
		<input type="checkbox"/> LA		<input type="checkbox"/> OTHER	
SPECIAL INSTRUCTIONS					
Invoice and Report to : Treadwell & Rollo Attn: Mike Chamberlain					
TPH-GAS (8015M)		TPH-DIESEL (8015M)		COD by 410.4	
VOC's by 8260B		TPH-DIESEL (8015M)		BOD by 405.1	
Alkalinity by 310.2, Chloride by 300		Manganese by 6010		RESULTS NEEDED NO LATER THAN 10/11/05 (except BOD Standard)	
RELEASED BY <i>[Signature]</i>		RECEIVED BY <i>[Signature]</i>		TIME 10:00	
SHIPPED VIA		DATE		TIME	
RELEASED BY <i>[Signature]</i>		DATE		TIME	
SHIPPED VIA		DATE		TIME	

162508

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TECH SERVICES.

**1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105**
FAX (408) 573-7771
PHONE (408) 573-0555

ALL CONTAINERS
BTS # 052007-341
Treadwell & Rollo
Point St. George Fisheries Facility
Santa Rosa, CA

SAMPLE I.D.				MATRIX	CONTAINERS	
	DATE	TIME		S = SOIL W = H ₂ O	TOTAL	C = COMPOST
-2025-10-27	14/7	830	ω	ω	2	

REVISED

CURTIS & TOMPKINS, LTD. BERKELEY **LOGIN CHANGE FORM**

Reason for change:

Client Request: By: M. Chamberlain Date/Time: 10/12/05 1455 Initials: SES

Login Review _____ Data Review _____

Client/Acct: TREAK

Current Lab ID	Previous Lab ID	Client ID	Matrix	Add/Cancel	Analysis	Hold date	Due date
182368 - all samples			Water	Add	Silica Gel Pre- & Post- TEST		10/17

Steven Stanley

From: "Michael Chamberlain" <mchamberlain@treadwellrollo.com>
To: "Steve Stanley" <steve@ctberk.com>
Cc: "Patrick B. Hubbard" <pbhubbard@treadwellrollo.com>
Sent: Wednesday, October 12, 2005 1:48 PM
Subject: RE: 2577.05 - C&T Login Summary (182368)

Steve

We would like to add silica gel clean up to the TPH and report both TPH with and without silica gel.

MAC

From: Steve Stanley [mailto:steve@ctberk.com]
Sent: Wednesday, October 12, 2005 1:21 PM
To: Michael Chamberlain
Subject: 2577.05 - C&T Login Summary (182368)

C&T Login Summary for 182368

Project:

COOLER RECEIPT CHECKLIST

Login#: 182368 Date Received: 10/11/05 Number of Coolers: 3
Client: Treasurewell + Kollo Project: Pt. St. Georges Fisheries

A. Preliminary Examination Phase

- Date Opened: 10/11/05 By (print): John P. (sign) JP
1. Did cooler come with a shipping slip (airbill, etc.)? YES NO
If YES, enter carrier name and airbill number: FED EX 853231250581
2. Were custody seals on outside of cooler? YES NO
How many and where? _____ Seal date: _____ Seal name: _____
3. Were custody seals unbroken and intact at the date and time of arrival? YES NO N/A
4. Were custody papers dry and intact when received? YES NO
5. Were custody papers filled out properly (ink, signed, etc.)? YES NO
6. Did you sign the custody papers in the appropriate place? YES NO
7. Was project identifiable from custody papers? YES NO
If YES, enter project name at the top of this form.
8. If required, was sufficient ice used? Samples should be 2-6 degrees C. YES NO
Type of ice: WET Temperature: on ice - No Temp

B. Login Phase

Date Logged In: 10/11/05 By (print): John P. (sign) JP

1. Describe type of packing in cooler: bubble wrap YES NO
2. Did all bottles arrive unbroken? YES NO
3. Were labels in good condition and complete (ID, date, time, signature, etc.)? YES NO
4. Did bottle labels agree with custody papers? YES NO
5. Were appropriate containers used for the tests indicated? YES NO
6. Were correct preservatives added to samples? YES NO
7. Was sufficient amount of sample sent for tests indicated? YES NO
8. Were bubbles absent in VOA samples? If NO, list sample IDs below. YES NO
9. Was the client contacted concerning this sample delivery? YES NO
If YES, give details below.

Who was called? _____ By whom? _____ Date: _____

Additional Comments:

Total Volatile Hydrocarbons

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2577.05	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	106593
Units:	ug/L	Sampled:	10/07/05
Diln Fac:	1.000	Received:	10/11/05

Field ID: TW-1R-2005-10-07 Lab ID: 182368-001
 Type: SAMPLE Analyzed: 10/11/05

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	89	62-141
Bromofluorobenzene (FID)	88	78-134

Field ID: TW-2R-2005-10-07 Lab ID: 182368-002
 Type: SAMPLE Analyzed: 10/11/05

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	91	62-141
Bromofluorobenzene (FID)	89	78-134

Field ID: TW-3R-2005-10-07 Lab ID: 182368-003
 Type: SAMPLE Analyzed: 10/11/05

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	89	62-141
Bromofluorobenzene (FID)	87	78-134

Field ID: TW-4R-2005-10-07 Lab ID: 182368-004
 Type: SAMPLE Analyzed: 10/11/05

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	95	62-141
Bromofluorobenzene (FID)	90	78-134

ND= Not Detected

RL= Reporting Limit

Page 1 of 3

Total Volatile Hydrocarbons

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2577.05	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	106593
Units:	ug/L	Sampled:	10/07/05
Diln Fac:	1.000	Received:	10/11/05

Field ID: TW-5R-2005-10-07 Lab ID: 182368-005
 Type: SAMPLE Analyzed: 10/11/05

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	83	62-141
Bromofluorobenzene (FID)	83	78-134

Field ID: TW-6R-2005-10-07 Lab ID: 182368-006
 Type: SAMPLE Analyzed: 10/11/05

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	86	62-141
Bromofluorobenzene (FID)	85	78-134

Field ID: TW-7R-2005-10-07 Lab ID: 182368-007
 Type: SAMPLE Analyzed: 10/11/05

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	85	62-141
Bromofluorobenzene (FID)	85	78-134

Field ID: DUP-1-2005-10-07 Lab ID: 182368-008
 Type: SAMPLE Analyzed: 10/11/05

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	90	62-141
Bromofluorobenzene (FID)	90	78-134

Total Volatile Hydrocarbons

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2577.05	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	106593
Units:	ug/L	Sampled:	10/07/05
Diln Fac:	1.000	Received:	10/11/05

Field ID: DUP-2-2005-10-07 Lab ID: 182368-009
 Type: SAMPLE Analyzed: 10/12/05

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	104	62-141
Bromofluorobenzene (FID)	118	78-134

Field ID: FB-2005-10-07 Lab ID: 182368-010
 Type: SAMPLE Analyzed: 10/12/05

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	84	62-141
Bromofluorobenzene (FID)	85	78-134

Type: BLANK Analyzed: 10/11/05
 Lab ID: QC312372

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Trifluorotoluene (FID)	88	62-141
Bromofluorobenzene (FID)	85	78-134

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2577.05	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC312374	Batch#:	106593
Matrix:	Water	Analyzed:	10/11/05
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	2,000	2,116	106	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	106	62-141
Bromofluorobenzene (FID)	89	78-134

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2577.05	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	106593
MSS Lab ID:	182376-004	Sampled:	10/10/05
Matrix:	Water	Received:	10/11/05
Units:	ug/L	Analyzed:	10/12/05
Diln Fac:	1.000		

Type: MS Lab ID: QC312506

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	254.6	2,000	2,152	95	80-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	124	62-141
Bromofluorobenzene (FID)	89	78-134

Type: MSD Lab ID: QC312507

Analyte	Spiked	Result	%REC	Limits	RPD Lim
Gasoline C7-C12	2,000	2,175	96	80-120	1 20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	114	62-141
Bromofluorobenzene (FID)	95	78-134

RPD= Relative Percent Difference

Page 1 of 1

4.0

Total Extractable Hydrocarbons

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2577.05	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	10/07/05
Units:	ug/L	Received:	10/11/05
Diln Fac:	1.000	Prepared:	10/11/05
Batch#:	106630		

Field ID: TW-1R-2005-10-07 Lab ID: 182368-001
 Type: SAMPLE Cleanup Method: EPA 3630C

Analyte	Result	RL	Analyzed
Diesel C10-C24	ND	50	10/13/05
Diesel C10-C24 (SGCU)	ND	50	10/12/05
Motor Oil C24-C36	ND	300	10/13/05
Motor Oil C24-C36 (SGCU)	ND	300	10/12/05

Surrogate	REC	Limits	Analyzed
Hexacosane	100	60-135	10/13/05
Hexacosane (SGCU)	101	60-135	10/12/05

Field ID: TW-2R-2005-10-07 Lab ID: 182368-002
 Type: SAMPLE Cleanup Method: EPA 3630C

Analyte	Result	RL	Analyzed
Diesel C10-C24	ND	50	10/13/05
Diesel C10-C24 (SGCU)	ND	50	10/12/05
Motor Oil C24-C36	ND	300	10/13/05
Motor Oil C24-C36 (SGCU)	ND	300	10/12/05

Surrogate	REC	Limits	Analyzed
Hexacosane	104	60-135	10/13/05
Hexacosane (SGCU)	104	60-135	10/12/05

Field ID: TW-3R-2005-10-07 Analyzed: 10/13/05
 Type: SAMPLE Cleanup Method: EPA 3630C
 Lab ID: 182368-003

Analyte	Result	RL
Diesel C10-C24	ND	50
Diesel C10-C24 (SGCU)	ND	50
Motor Oil C24-C36	ND	300
Motor Oil C24-C36 (SGCU)	ND	300

Surrogate	REC	Limits
Hexacosane	98	60-135
Hexacosane (SGCU)	116	60-135

H= Heavier hydrocarbons contributed to the quantitation

L= Lighter hydrocarbons contributed to the quantitation

Y= Sample exhibits chromatographic pattern which does not resemble standard

ND= Not Detected

RL= Reporting Limit

SGCU= Silica gel cleanup

Total Extractable Hydrocarbons

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2577.05	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	10/07/05
Units:	ug/L	Received:	10/11/05
Diln Fac:	1.000	Prepared:	10/11/05
Batch#:	106630		

Field ID: TW-4R-2005-10-07 Analyzed: 10/13/05
 Type: SAMPLE Cleanup Method: EPA 3630C
 Lab ID: 182368-004

Analyte	Result	RL
Diesel C10-C24	1,200 H Y	50
Diesel C10-C24 (SGCU)	570 H Y	50
Motor Oil C24-C36	1,300 L Y	300
Motor Oil C24-C36 (SGCU)	590 L	300

Surrogate	REC	ITEMS
Hexacosane	91	60-135
Hexacosane (SGCU)	101	60-135

Field ID: TW-5R-2005-10-07 Analyzed: 10/13/05
 Type: SAMPLE Cleanup Method: EPA 3630C
 Lab ID: 182368-005

Analyte	Result	RL
Diesel C10-C24	ND	50
Diesel C10-C24 (SGCU)	ND	50
Motor Oil C24-C36	ND	300
Motor Oil C24-C36 (SGCU)	ND	300

Surrogate	REC	ITEMS
Hexacosane	102	60-135
Hexacosane (SGCU)	115	60-135

Field ID: TW-6R-2005-10-07 Analyzed: 10/13/05
 Type: SAMPLE Cleanup Method: EPA 3630C
 Lab ID: 182368-006

Analyte	Result	RL
Diesel C10-C24	ND	50
Diesel C10-C24 (SGCU)	ND	50
Motor Oil C24-C36	ND	300
Motor Oil C24-C36 (SGCU)	ND	300

Surrogate	REC	ITEMS
Hexacosane	108	60-135
Hexacosane (SGCU)	98	60-135

H= Heavier hydrocarbons contributed to the quantitation

L= Lighter hydrocarbons contributed to the quantitation

Y= Sample exhibits chromatographic pattern which does not resemble standard

ND= Not Detected

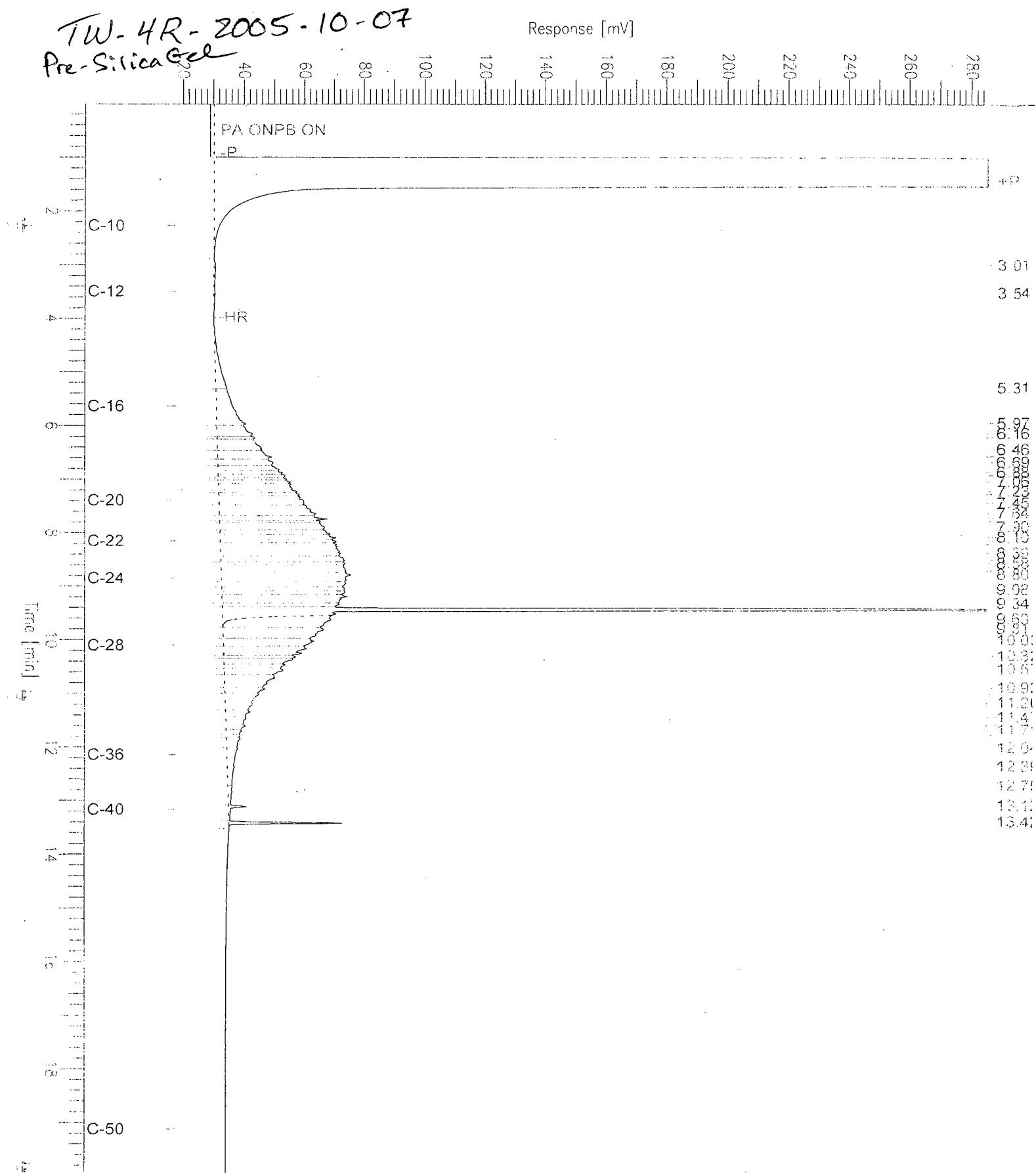
RL= Reporting Limit

SGCU= Silica gel cleanup

Chromatogram

Sample Name : 182368-004,106630
 FileName : G:\GC13\CHB\285B037.RAW
 Method : BTEH284S.MTH
 Start Time : 0.01 min End Time : 19.99 min
 Scale Factor: 0.0 Plot Offset: 18 mV

Sample #: 106630 Page 1 of 1
 Date : 10/13/05 08:22 AM
 Time of Injection: 10/13/05 04:28 AM
 Low Point : 18.01 mV High Point : 285.42 mV
 Plot Scale: 267.4 mV



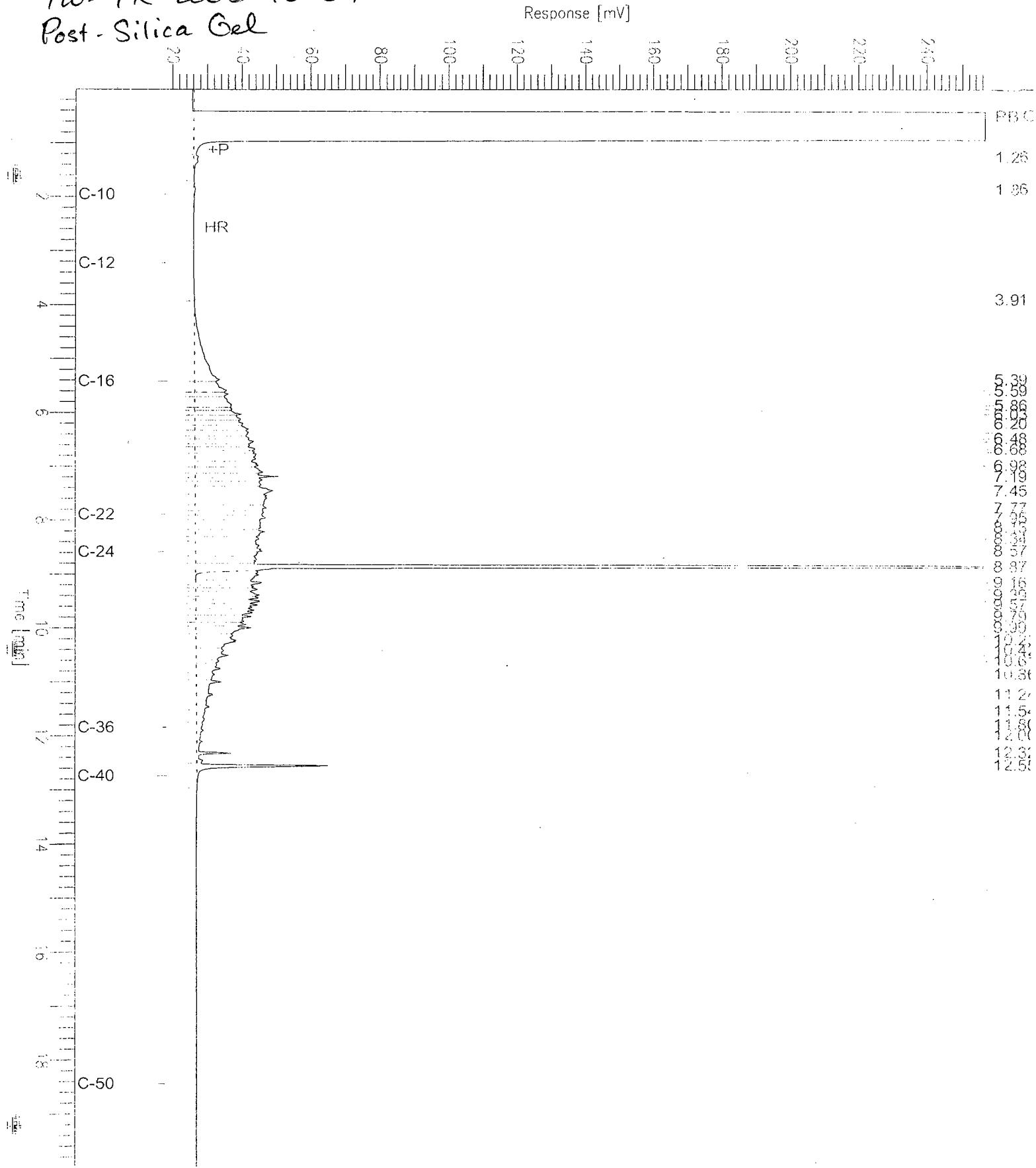
Chromatogram

Sample Name : 182368-004sg,106630
 FileName : G:\GC15\CHB\285B021.RAW
 Method : BTEH274S.MTH
 Start Time : 0.01 min End Time : 19.99 min
 Scale Factor: 0.0 Plot Offset: 19 mV

Sample #: 106630 Page 1 of 1
 Date : 10/13/05 10:41 AM
 Time of Injection: 10/13/05 12:32 AM
 Low Point : 18.52 mV High Point : 256.71 mV
 Plot Scale: 238.2 mV

TW-4R-2005-10-07

Post-Silica Gel





Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2577.05	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	10/07/05
Units:	ug/L	Received:	10/11/05
Diln Fac:	1.000	Prepared:	10/11/05
Batch#:	106630		

Field ID: TW-7R-2005-10-07 Analyzed: 10/13/05
Type: SAMPLE Cleanup Method: EPA 3630C
Lab ID: 182368-007

Analyte	Result	RL
Diesel C10-C24	62 H Y	50
Diesel C10-C24 (SGCU)	ND	50
Motor Oil C24-C36	ND	300
Motor Oil C24-C36 (SGCU)	ND	300

Surrogate	%REC	PERCENT
Hexacosane	100	60-135
Hexacosane (SGCU)	91	60-135

Field ID: DUP-1-2005-10-07 Analyzed: 10/13/05
Type: SAMPLE Cleanup Method: EPA 3630C
Lab ID: 182368-008

Analyte	Result	RL
Diesel C10-C24	1,900 H Y	50
Diesel C10-C24 (SGCU)	870 H Y	50
Motor Oil C24-C36	3,300	300
Motor Oil C24-C36 (SGCU)	810 L	300

Surrogate	%REC	PERCENT
Hexacosane	97	60-135
Hexacosane (SGCU)	104	60-135

Field ID: DUP-2-2005-10-07 Analyzed: 10/13/05
Type: SAMPLE Cleanup Method: EPA 3630C
Lab ID: 182368-009

Analyte	Result	RL
Diesel C10-C24	ND	50
Diesel C10-C24 (SGCU)	ND	50
Motor Oil C24-C36	ND	300
Motor Oil C24-C36 (SGCU)	ND	300

Surrogate	%REC	PERCENT
Hexacosane	95	60-135
Hexacosane (SGCU)	105	60-135

H= Heavier hydrocarbons contributed to the quantitation

L= Lighter hydrocarbons contributed to the quantitation

Y= Sample exhibits chromatographic pattern which does not resemble standard

ND= Not Detected

RL= Reporting Limit

SGCU= Silica gel cleanup

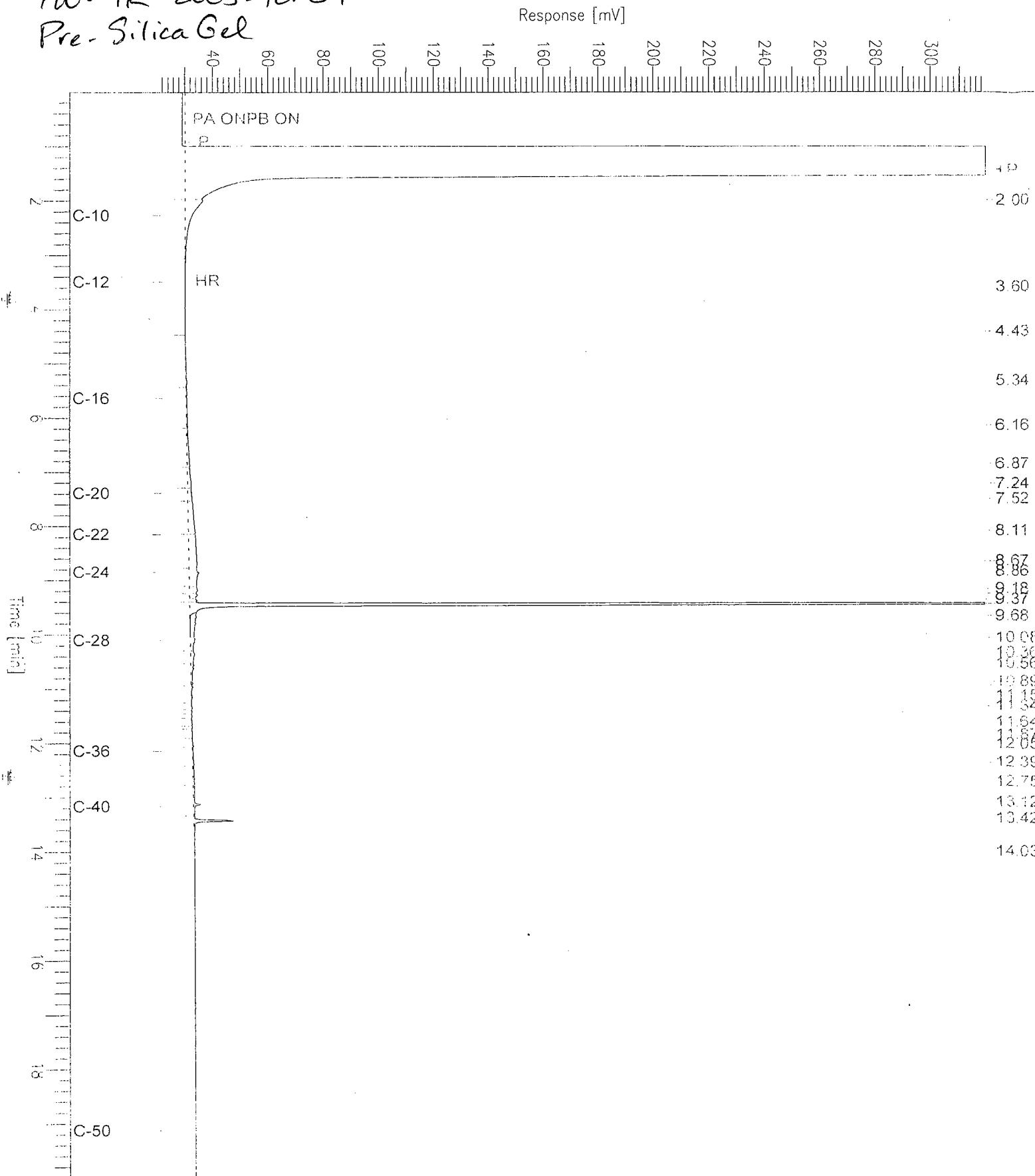
Chromatogram

Sample Name : 182368-007,106630
 FileName : G:\GC13\CHB\285B040.RAW
 Method : BTEH284S.MTH
 Start Time : 0.01 min End Time : 19.99 min
 Scale Factor: 0.0 Plot Offset: 22 mV

Sample #: 106630 Page 1 of 1
 Date : 10/13/05 08:24 AM
 Time of Injection: 10/13/05 05:53 AM
 Low Point : 21.99 mV High Point : 319.59 mV
 Plot Scale: 297.6 mV

TW-FR-2005-10-07

Pre-Silica Gel



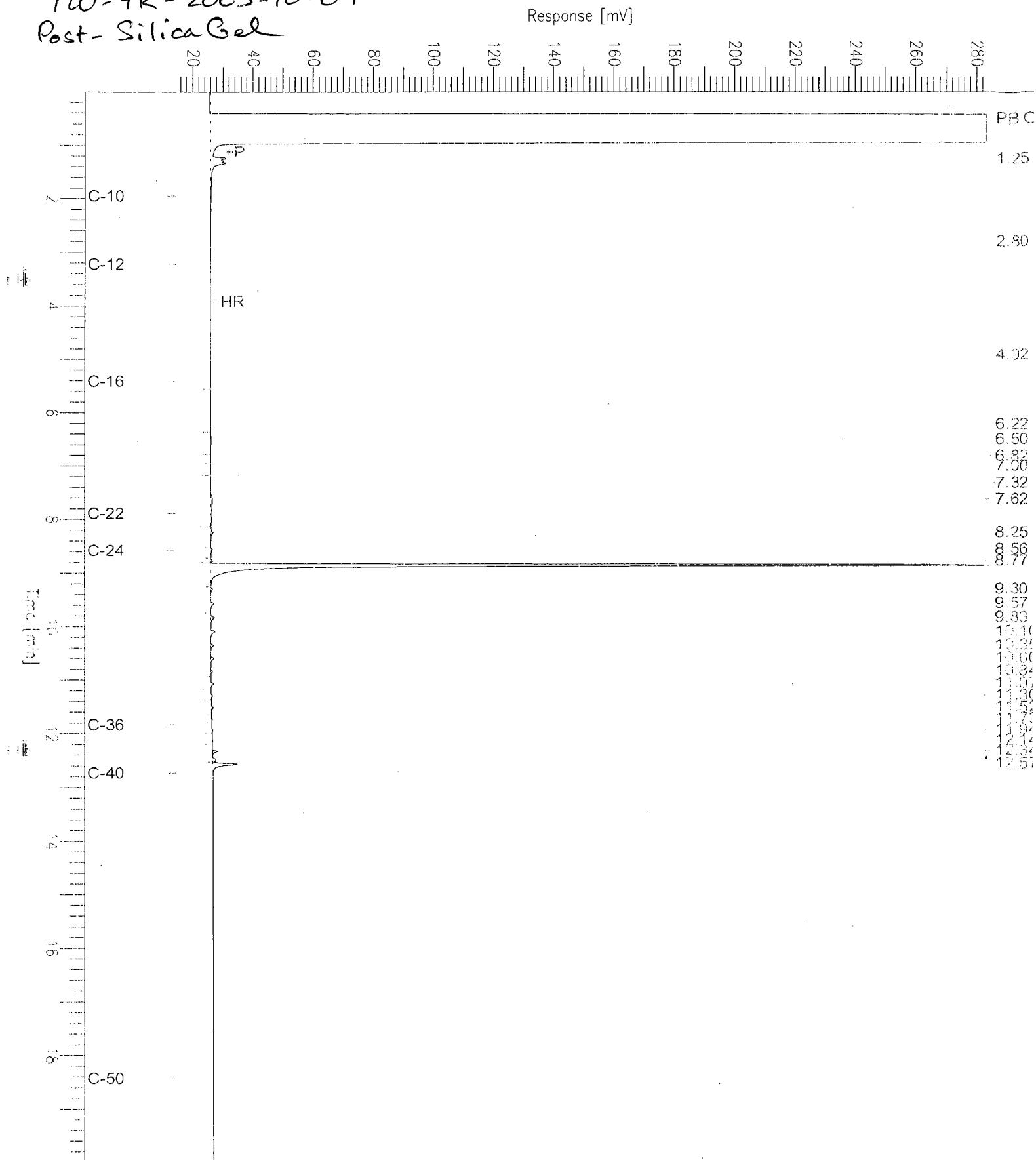
Chromatogram

Sample Name : 182368-007sg,106630
 FileName : G:\GC15\CHB\285B024.RAW
 Method : BTEH274S.MTH
 Start Time : 0.01 min End Time : 19.99 min
 Scale Factor: 0.0 Plot Offset: 15 mV

Sample #: 106630 Page 1 of 1
 Date : 10/13/05 10:42 AM
 Time of Injection: 10/13/05 01:58 AM
 Low Point : 14.72 mV High Point : 283.12 mV
 Plot Scale: 268.4 mV

TW-FR-2005-10-07

Post-Silica Gel

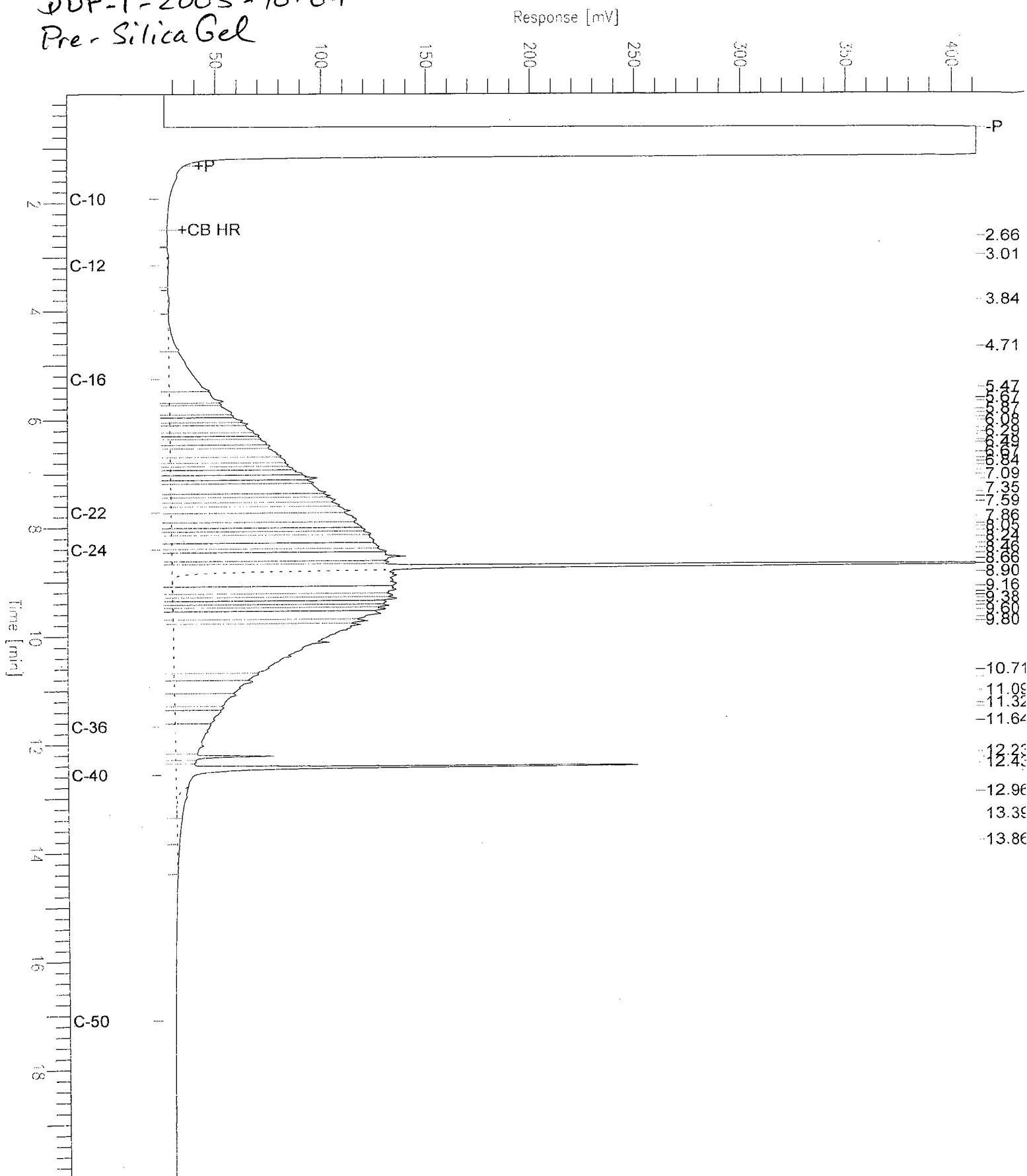


Chromatogram

Sample Name : 182368-008,106630
FileName : G:\GC17\CHA\282A136.RAW
Method : ATEH270.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 24 mV

Sample #: 106630 Date : 10/13/05 04:43 PM
Time of Injection: 10/13/05 03:44 PM
Low Point : 23.50 mV High Point : 411.91 mV
Plot Scale: 388.4 mV

DUP-1-2005-10-07
Pre-Silica Gel

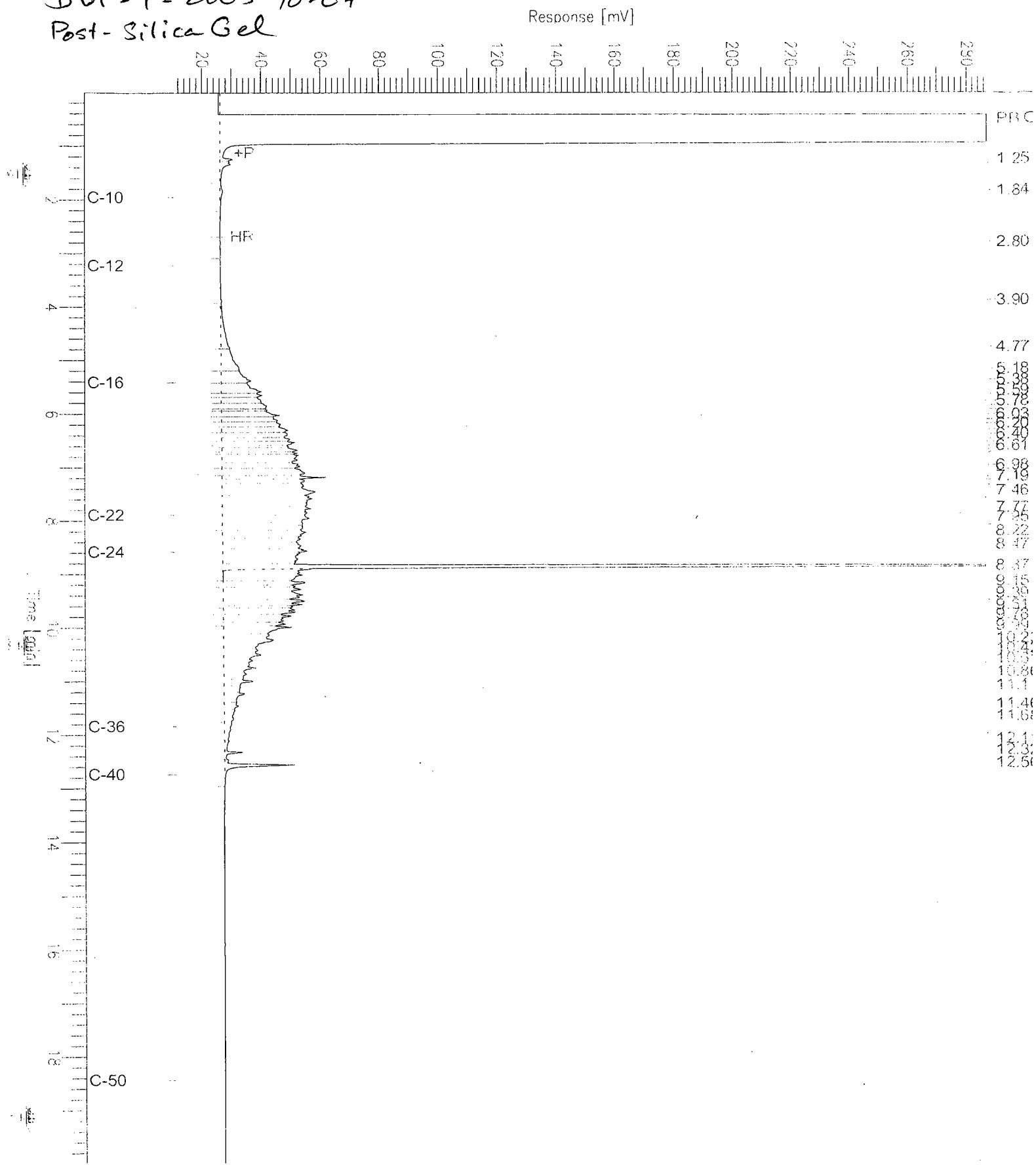


Chromatogram

Sample Name : 182368-008sg,106630
 FileName : G:\GC15\CHB\285B025.RAW
 Method : BTEH274S.MTH
 Start Time : 0.01 min End Time : 19.99 min
 Scale Factor: 0.0 Plot Offset: 11 mV

Sample #: 106630 Page 1 of 1
 Date : 10/13/05 10:43 AM
 Time of Injection: 10/13/05 02:27 AM
 Low Point : 11.03 mV High Point : 286.92 mV
 Plot Scale: 275.9 mV

DVP - 1 - 2005-10-07
Post-Silica Gel



Total Extractable Hydrocarbons

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2577.05	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	10/07/05
Units:	ug/L	Received:	10/11/05
Diln Fac:	1.000	Prepared:	10/11/05
Batch#:	106630		

Field ID: FB-2005-10-07 Analyzed: 10/13/05
 Type: SAMPLE Cleanup Method: EPA 3630C
 Lab ID: 182368-010

Analyte	Result	RL	Analyzed
Diesel C10-C24	ND	50	
Diesel C10-C24 (SGCU)	ND	50	
Motor Oil C24-C36	ND	300	
Motor Oil C24-C36 (SGCU)	ND	300	

Surrogate	REC	Limits	Analyzed
Hexacosane	93	60-135	
Hexacosane (SGCU)	104	60-135	

Type: BLANK Cleanup Method: EPA 3630C
 Lab ID: QC312532

Analyte	Result	RL	Analyzed
Diesel C10-C24	ND	50	10/13/05
Diesel C10-C24 (SGCU)	ND	50	10/12/05
Motor Oil C24-C36	ND	300	10/13/05
Motor Oil C24-C36 (SGCU)	ND	300	10/12/05

Surrogate	REC	Limits	Analyzed
Hexacosane	96	60-135	10/13/05
Hexacosane (SGCU)	97	60-135	10/12/05

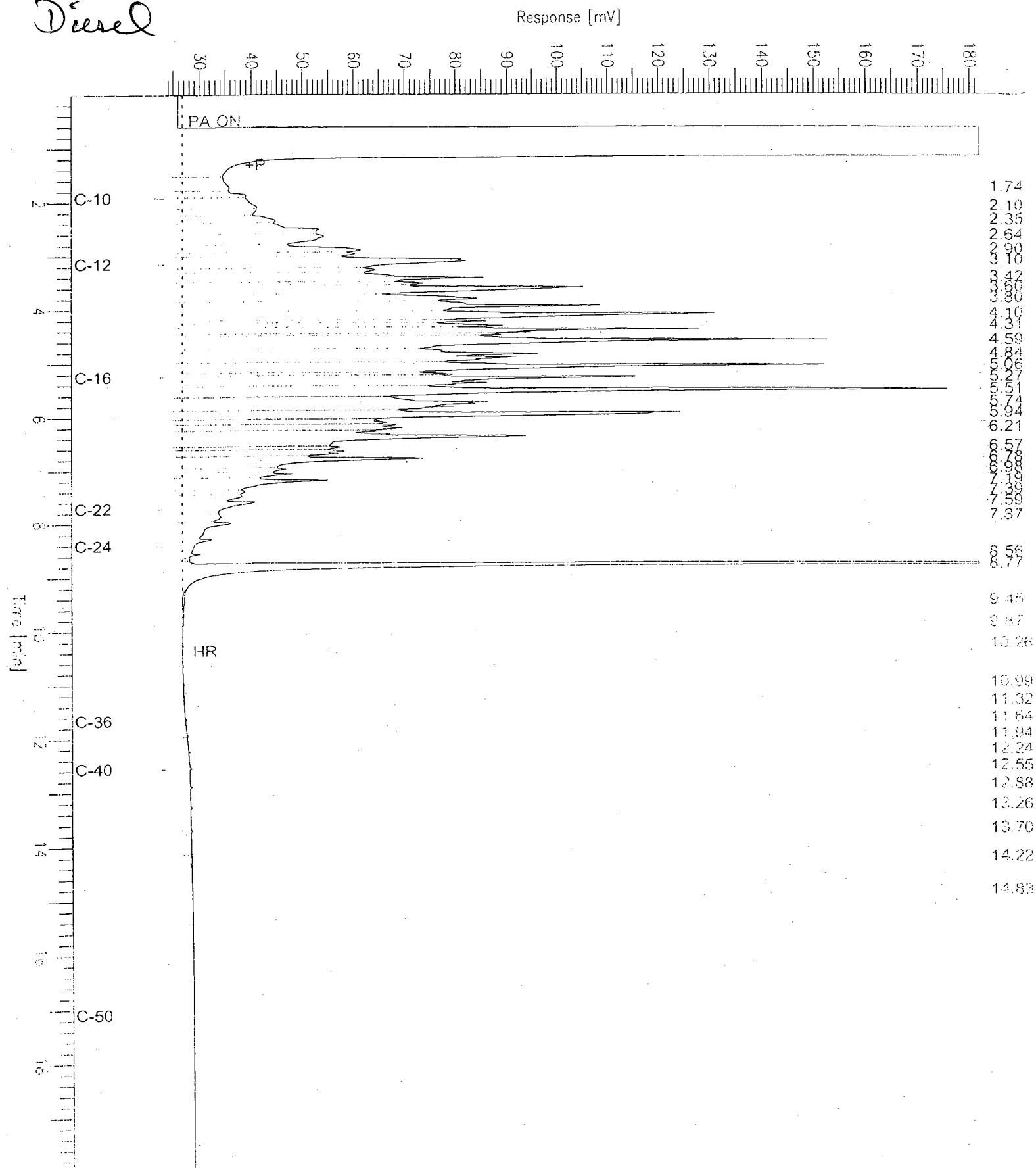
H= Heavier hydrocarbons contributed to the quantitation
 L= Lighter hydrocarbons contributed to the quantitation
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit
 SGCU= Silica gel cleanup
 Page 4 of 4

Chromatogram

Sample Name : ccv,S1522,dsl
FileName : G:\GC17\CHA\282A003.RAW
Method : ATBH270.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 23 mV

Sample #: 500mg/L Page 1 of 1
Date : 10/9/05 11:07 AM
Time of Injection: 10/9/05 10:00 AM
Low Point : 23.20 mV High Point : 181.85 mV
Plot Scale: 158.7 mV

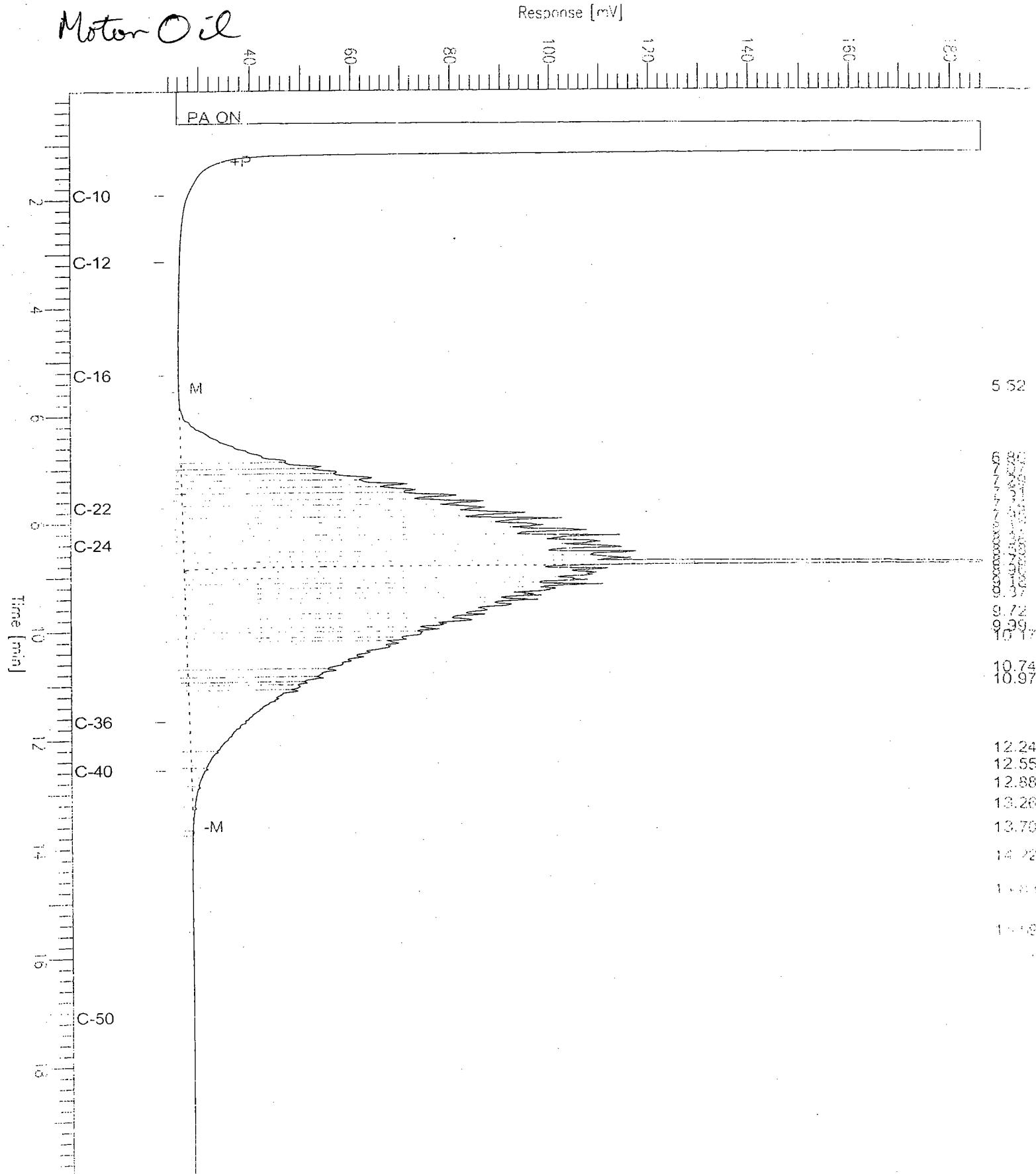
Diesel



Chromatogram

Sample Name : ccv,S1657.mo
FileName : G:\GC17\CHA\282A004.RAW
Method : ATEH270.MTH
Start Time : 0.01 min End Time : 19.99 min
Scale Factor: 0.0 Plot Offset: 23 mV

Sample #: 500mg/L Page 1 of 1
Date : 10/9/05 11:08 AM
Time of Injection: 10/9/05 10:29 AM
Low Point : 23.22 mV High Point : 186.07 mV
Plot Scale: 162.9 mV



Batch QC Report

Total Extractable Hydrocarbons

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	EPA 3520C
Project#:	2577.05	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	106630
Units:	ug/L	Prepared:	10/11/05
Diln Fac:	1.000		

Type: BS Cleanup Method: EPA 3630C
 Lab ID: QC312533

Analyte	Spiked	Result	%REC	Limits	Analyzed
Diesel C10-C24	2,500	2,378	95	53-138	10/13/05
Diesel C10-C24 (SGCU)	2,500	2,452	98	53-138	10/12/05

Surrogate	%REC	Limits	Analyzed
Hexacosane	95	60-135	10/13/05
Hexacosane (SGCU)	101	60-135	10/12/05

Type: BSD Analyzed: 10/13/05
 Lab ID: QC312534 Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits	RPD Lim
Diesel C10-C24	2,500	2,288	92	53-138	4 36
Diesel C10-C24 (SGCU)	2,500	2,269	91	53-138	8 36

Surrogate	%REC	Limits
Hexacosane	92	60-135
Hexacosane (SGCU)	97	60-135

RPD= Relative Percent Difference

SGCU= Silica gel cleanup

Page 1 of 1

23.0



Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2577.05	Analysis:	EPA 8260B
Field ID:	TW-1R-2005-10-07	Batch#:	106664
Lab ID:	182368-001	Sampled:	10/07/05
Matrix:	Water	Received:	10/11/05
Units:	ug/L	Analyzed:	10/13/05
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	2.3	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	23	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	34	0.5

ND= Not Detected

RL= Reporting Limit

Page 1 of 2



Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2577.05	Analysis:	EPA 8260B
Field ID:	TW-1R-2005-10-07	Batch#:	106664
Lab ID:	182368-001	Sampled:	10/07/05
Matrix:	Water	Received:	10/11/05
Units:	ug/L	Analyzed:	10/13/05
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-121
1,2-Dichloroethane-d4	92	80-125
Toluene-d8	99	80-120
Bromofluorobenzene	96	80-124

ND= Not Detected

RL= Reporting Limit

Page 2 of 2



Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2577.05	Analysis:	EPA 8260B
Field ID:	TW-2R-2005-10-07	Batch#:	106664
Lab ID:	182368-002	Sampled:	10/07/05
Matrix:	Water	Received:	10/11/05
Units:	ug/L	Analyzed:	10/13/05
Diln Fac:	1.000		

Analyte	Result	RI
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	2.2	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	21	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	33	0.5

ND= Not Detected

RL= Reporting Limit

Page 1 of 2



Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2577.05	Analysis:	EPA 8260B
Field ID:	TW-2R-2005-10-07	Batch#:	106664
Lab ID:	182368-002	Sampled:	10/07/05
Matrix:	Water	Received:	10/11/05
Units:	ug/L	Analyzed:	10/13/05
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-121
1,2-Dichloroethane-d4	91	80-125
Toluene-d8	98	80-120
Bromofluorobenzene	96	80-124

ND= Not Detected

RL= Reporting Limit

Page 2 of 2



Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2577.05	Analysis:	EPA 8260B
Field ID:	TW-3R-2005-10-07	Batch#:	106664
Lab ID:	182368-003	Sampled:	10/07/05
Matrix:	Water	Received:	10/11/05
Units:	ug/L	Analyzed:	10/13/05
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	2.0	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	19	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	31	0.5

ND= Not Detected

RL= Reporting Limit

Page 1 of 2



Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2577.05	Analysis:	EPA 8260B
Field ID:	TW-3R-2005-10-07	Batch#:	106664
Lab ID:	182368-003	Sampled:	10/07/05
Matrix:	Water	Received:	10/11/05
Units:	ug/L	Analyzed:	10/13/05
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limit
Dibromofluoromethane	99	80-121
1,2-Dichloroethane-d4	96	80-125
Toluene-d8	96	80-120
Bromofluorobenzene	96	80-124

ND= Not Detected

RL= Reporting Limit

Page 2 of 2



Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2577.05	Analysis:	EPA 8260B
Field ID:	TW-4R-2005-10-07	Batch#:	106664
Lab ID:	182368-004	Sampled:	10/07/05
Matrix:	Water	Received:	10/11/05
Units:	ug/L	Analyzed:	10/13/05
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected

RL= Reporting Limit

Page 1 of 2



Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2577.05	Analysis:	EPA 8260B
Field ID:	TW-4R-2005-10-07	Batch#:	106664
Lab ID:	182368-004	Sampled:	10/07/05
Matrix:	Water	Received:	10/11/05
Units:	ug/L	Analyzed:	10/13/05
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	REC	Limits
Dibromofluoromethane	96	80-121
1,2-Dichloroethane-d4	96	80-125
Toluene-d8	98	80-120
Bromofluorobenzene	98	80-124

ND= Not Detected

RL= Reporting Limit

Page 2 of 2



Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2577.05	Analysis:	EPA 8260B
Field ID:	TW-5R-2005-10-07	Batch#:	106664
Lab ID:	182368-005	Sampled:	10/07/05
Matrix:	Water	Received:	10/11/05
Units:	ug/L	Analyzed:	10/13/05
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	1.7	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	2.1	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	0.7	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	4.1	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	10	0.5

ND= Not Detected

RL= Reporting Limit

Page 1 of 2



Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2577.05	Analysis:	EPA 8260B
Field ID:	TW-5R-2005-10-07	Batch#:	106664
Lab ID:	182368-005	Sampled:	10/07/05
Matrix:	Water	Received:	10/11/05
Units:	ug/L	Analyzed:	10/13/05
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	REC	limits
Dibromofluoromethane	100	80-121
1,2-Dichloroethane-d4	99	80-125
Toluene-d8	101	80-120
Bromofluorobenzene	98	80-124

ND= Not Detected

RL= Reporting Limit

Page 2 of 2

Purgeable Organics by GC/MS

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2577.05	Analysis:	EPA 8260B
Field ID:	TW-6R-2005-10-07	Batch#:	106693
Lab ID:	182368-006	Sampled:	10/07/05
Matrix:	Water	Received:	10/11/05
Units:	ug/L	Analyzed:	10/13/05
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	2.1	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	4.7	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	0.5	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	11	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	22	0.5

ND= Not Detected

RL= Reporting Limit

Page 1 of 2

10.0



Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2577.05	Analysis:	EPA 8260B
Field ID:	TW-6R-2005-10-07	Batch#:	106693
Lab ID:	182368-006	Sampled:	10/07/05
Matrix:	Water	Received:	10/11/05
Units:	ug/L	Analyzed:	10/13/05
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-121
1,2-Dichloroethane-d4	96	80-125
Toluene-d8	98	80-120
Bromofluorobenzene	112	80-124

ND= Not Detected

RL= Reporting Limit

Page 2 of 2

10.0



Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2577.05	Analysis:	EPA 8260B
Field ID:	TW-7R-2005-10-07	Batch#:	106693
Lab ID:	182368-007	Sampled:	10/07/05
Matrix:	Water	Received:	10/11/05
Units:	ug/L	Analyzed:	10/13/05
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	0.6	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	6.8	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	5.0	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	10	0.5

ND= Not Detected

RL= Reporting Limit

Page 1 of 2



Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2577.05	Analysis:	EPA 8260B
Field ID:	TW-7R-2005-10-07	Batch#:	106693
Lab ID:	182368-007	Sampled:	10/07/05
Matrix:	Water	Received:	10/11/05
Units:	ug/L	Analyzed:	10/13/05
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-121
1,2-Dichloroethane-d4	97	80-125
Toluene-d8	99	80-120
Bromofluorobenzene	110	80-124

ND= Not Detected

RL= Reporting Limit

Page 2 of 2



Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2577.05	Analysis:	EPA 8260B
Field ID:	DUP-1-2005-10-07	Batch#:	106693
Lab ID:	182368-008	Sampled:	10/07/05
Matrix:	Water	Received:	10/11/05
Units:	ug/L	Analyzed:	10/13/05
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected

RL= Reporting Limit

Page 1 of 2



Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2577.05	Analysis:	EPA 8260B
Field ID:	DUP-1-2005-10-07	Batch#:	106693
Lab ID:	182368-008	Sampled:	10/07/05
Matrix:	Water	Received:	10/11/05
Units:	ug/L	Analyzed:	10/13/05
Diln Fac:	1.000		

Analyte	Result	RI
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%RBC	Limits
Dibromofluoromethane	100	80-121
1,2-Dichloroethane-d4	95	80-125
Toluene-d8	99	80-120
Bromofluorobenzene	111	80-124

ND= Not Detected

RL= Reporting Limit

Page 2 of 2



Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2577.05	Analysis:	EPA 8260B
Field ID:	DUP-2-2005-10-07	Batch#:	106693
Lab ID:	182368-009	Sampled:	10/07/05
Matrix:	Water	Received:	10/11/05
Units:	ug/L	Analyzed:	10/13/05
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	2.0	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	5.0	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	0.6	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	12	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	23	0.5

ND= Not Detected

RL= Reporting Limit

Page 1 of 2



Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2577.05	Analysis:	EPA 8260B
Field ID:	DUP-2-2005-10-07	Batch#:	106693
Lab ID:	182368-009	Sampled:	10/07/05
Matrix:	Water	Received:	10/11/05
Units:	ug/L	Analyzed:	10/13/05
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-121
1,2-Dichloroethane-d4	96	80-125
Toluene-d8	99	80-120
Bromofluorobenzene	113	80-124

ND= Not Detected

RL= Reporting Limit

Page 2 of 2



Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2577.05	Analysis:	EPA 8260B
Field ID:	FB-2005-10-07	Batch#:	106693
Lab ID:	182368-010	Sampled:	10/07/05
Matrix:	Water	Received:	10/11/05
Units:	ug/L	Analyzed:	10/13/05
Diln Fac:	1.000		

Analyte	Result	RI
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected

RL= Reporting Limit

Page 1 of 2



Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2577.05	Analysis:	EPA 8260B
Field ID:	FB-2005-10-07	Batch#:	106693
Lab ID:	182368-010	Sampled:	10/07/05
Matrix:	Water	Received:	10/11/05
Units:	ug/L	Analyzed:	10/13/05
Diln Fac:	1.000		

Analyte	Result	RI
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-121
1,2-Dichloroethane-d4	99	80-125
Toluene-d8	100	80-120
Bromofluorobenzene	109	80-124

ND= Not Detected

RL= Reporting Limit

Page 2 of 2



Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2577.05	Analysis:	EPA 8260B
Field ID:	TB-2005-10-07	Batch#:	106693
Lab ID:	182368-011	Sampled:	10/07/05
Matrix:	Water	Received:	10/11/05
Units:	ug/L	Analyzed:	10/13/05
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected

RL= Reporting Limit

Page 1 of 2



Curtis & Tompkins, Ltd.

Purgeable Organics by GC/MS

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2577.05	Analysis:	EPA 8260B
Field ID:	TB-2005-10-07	Batch#:	106693
Lab ID:	182368-011	Sampled:	10/07/05
Matrix:	Water	Received:	10/11/05
Units:	ug/L	Analyzed:	10/13/05
Diln Fac:	1.000		

Analyte	Result	RI
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-121
1,2-Dichloroethane-d4	98	80-125
Toluene-d8	100	80-120
Bromofluorobenzene	110	80-124

ND= Not Detected

RL= Reporting Limit

Page 2 of 2



Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2577.05	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC312695	Batch#:	106664
Matrix:	Water	Analyzed:	10/12/05
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected

RL= Reporting Limit

Page 1 of 2



Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2577.05	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC312695	Batch#:	106664
Matrix:	Water	Analyzed:	10/12/05
Units:	ug/L		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-121
1,2-Dichloroethane-d4	99	80-125
Toluene-d8	96	80-120
Bromofluorobenzene	97	80-124

ND= Not Detected

RL= Reporting Limit

Page 2 of 2

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2577.05	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC312800	Batch#:	106693
Matrix:	Water	Analyzed:	10/13/05
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected

RL= Reporting Limit

Page 1 of 2

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2577.05	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC312800	Batch#:	106693
Matrix:	Water	Analyzed:	10/13/05
Units:	ug/L		

Analyte	Result	RI
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%RRC	Limits
Dibromofluoromethane	101	80-121
1,2-Dichloroethane-d4	96	80-125
Toluene-d8	99	80-120
Bromofluorobenzene	111	80-124

ND= Not Detected

RL= Reporting Limit

Page 2 of 2

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2577.05	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC312801	Batch#:	106693
Matrix:	Water	Analyzed:	10/13/05
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected

RL= Reporting Limit

Page 1 of 2

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2577.05	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC312801	Batch#:	106693
Matrix:	Water	Analyzed:	10/13/05
Units:	ug/L		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%RRC	Limits
Dibromofluoromethane	99	80-121
1,2-Dichloroethane-d4	96	80-125
Toluene-d8	99	80-120
Bromofluorobenzene	111	80-124

ND= Not Detected

RL= Reporting Limit

Page 2 of 2



Curtis & Tompkins, Ltd.

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	EPA 5030B
Project#:	2577.05	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC312799	Batch#:	106693
Matrix:	Water	Analyzed:	10/13/05
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	25.00	26.62	106	74-124
Benzene	25.00	25.42	102	80-120
Trichloroethene	25.00	26.98	108	79-120
Toluene	25.00	25.29	101	80-120
Chlorobenzene	25.00	26.35	105	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-121
1,2-Dichloroethane-d4	96	80-125
Toluene-d8	98	80-120
Bromofluorobenzene	103	80-124

Chloride

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2577.05	Analysis:	EPA 300.0
Analyte:	Chloride	Batch#:	106674
Matrix:	Water	Received:	10/11/05
Units:	mg/L		

Field ID	Type	Lab ID	Result	RL	Diln Fac	Sampled	Prepared	Analyzed
TW-2R-2005-10-07	SAMPLE	182368-002	23	0.40	2.000	10/07/05 09:35	10/11/05 17:24	1
TW-3R-2005-10-07	SAMPLE	182368-003	26	0.40	2.000	10/07/05 10:05	10/11/05 17:39	1
TW-5R-2005-10-07	SAMPLE	182368-005	20	1.0	5.000	10/07/05 11:00	10/11/05 17:54	1
TW-7R-2005-10-07	SAMPLE	182368-007	140	2.0	10.00	10/07/05 11:50	10/11/05 18:10	1
	BLANK	QC312739	ND		0.20	1.000		10/11/05 12:18 10/11/

ND= Not Detected

RL= Reporting Limit

Page 1 of 1

Batch QC Report

Chloride

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2577.05	Analysis:	EPA 300.0
Analyte:	Chloride	Units:	mg/L
Field ID:	ZZZZZZZZZZ	Batch#:	106674
MSS Lab ID:	182327-001	Sampled:	10/07/05 08:40
Matrix:	Water	Received:	10/07/05

Type	Lab ID	MSS	Result	Spiked	Result	%RDC	Limits	RPD	Bim	Diln	Frac	Prepared	Analyzed
BS	QC312740		4.000		3.980	99	80-120				1.000	10/11/05	12:33 10/11
BSD	QC312741		4.000		4.007	100	80-120	1	20	1.000		10/11/05	12:48 10/11
MS	QC312742	9,584	4,000		13,670	102	80-120				2,000	10/11/05	15:53 10/11
MSD	QC312743		4,000		13,650	102	80-120	0	20	2,000		10/11/05	16:08 10/11

Sulfate

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2577.05	Analysis:	EPA 300.0
Analyte:	Sulfate	Batch#:	106674
Matrix:	Water	Received:	10/11/05
Units:	mg/L		

Field ID	Type	Lab ID	Result	RL	Diln. Fac	Sampled	Prepared	Analyzed	
TW-2R-2005-10-07	SAMPLE	182368-002	48	1.0	2.000	10/07/05 09:35	10/11/05 17:24	1	
TW-3R-2005-10-07	SAMPLE	182368-003	56	1.0	2.000	10/07/05 10:05	10/11/05 17:39	1	
TW-5R-2005-10-07	SAMPLE	182368-005	250	2.5	5.000	10/07/05 11:00	10/11/05 17:54	1	
TW-7R-2005-10-07	SAMPLE	182368-007	210	5.0	10.00	10/07/05 11:50	10/11/05 18:10	1	
	BLANK	QC312739	ND		0.50	1.000			10/11/05 12:18 10/11/

ND= Not Detected

RL= Reporting Limit

Page 1 of 1

Batch QC Report

Sulfate

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2577.05	Analysis:	EPA 300.0
Analyte:	Sulfate	Units:	mg/L
Field ID:	ZZZZZZZZZZ	Batch#:	106674
MSS Lab ID:	182327-001	Sampled:	10/07/05 08:40
Matrix:	Water	Received:	10/07/05

Type	Lab ID	MSS	Result	Spiked	Result	%REC	Limits	RPD	Item	Diln	Tic	Prepared	Analyzed
BS	QC312740		10.00		9.904	99	80-120			1.000		10/11/05 12:33	10/11
BSD	QC312741		10.00		9.993	100	80-120	1	20	1.000		10/11/05 12:48	10/11
MS	QC312742	1,387	10,000		11,310	99	80-120			2,000		10/11/05 15:53	10/11
MSD	QC312743		10,000		11,280	99	80-120	0	20	2,000		10/11/05 16:08	10/11

Chemical Oxygen Demand

Lab #:	182368	Location:	Pt. St. George Fisheries
Client:	Treadwell & Rollo	Prep:	METHOD
Project#:	2577.05	Analysis:	EPA 410.4
Analyte:	Chemical Oxygen Demand	Batch#:	106757
Matrix:	Water	Sampled:	10/07/05
Units:	mg/L	Received:	10/11/05
Diln Fac:	1.000	Analyzed:	10/14/05

Field ID	Type	Lab ID	Result	RL
TW-2R-2005-10-07	SAMPLE	182368-002	130	10
TW-3R-2005-10-07	SAMPLE	182368-003	ND	10
TW-5R-2005-10-07	SAMPLE	182368-005	22	10
TW-7R-2005-10-07	SAMPLE	182368-007	47	10
	BLANK	QC313072	ND	10

ND= Not Detected

RL= Reporting Limit

Page 1 of 1

Batch QC Report

Chemical Oxygen Demand									
Lab #:	182368	Location:	Pt. St.	George Fisheries					
Client:	Treadwell & Rollo	Prep:		METHOD					
Project#:	2577.05	Analysis:		EPA 410.4					
Analyte:	Chemical Oxygen Demand	Batch#:		106757					
Matrix:	Water	Analyzed:		10/14/05					
Units:	mg/L								

Batch ID	Type	MS	Lab ID	Lab ID	MS	Result	Spiked	Result	RL	ERL	RL	RD	LD	DIN	Fac	Sampled	Received
TW-3R-2005-10-07	LCS	QC313073			40.00	38.73		97	80-120		1.000						
TW-3R-2005-10-07	MS	182368-003	QC313074	<10.00	40.00	38.73		97	80-120		2.000						
TW-3R-2005-10-07	MSD	182368-003	QC313075		40.00	38.73		97	80-120	0	20	2.000					
ZZZZZZZZZZ	SDUP	182268-001	QC313076	451.9		451.9	50.00		0	20	5.000						
ZZZZZZZZZZ	SDUP	182407-001	QC313077	484.1		451.9	50.00	7	20	5.000							

RL= Reporting Limit

RPD= Relative Percent Difference

Page 1 of 1